

Andrew Freistein 10/804,505

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NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
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NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the
IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDb, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
added to TULSA

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:18:31 ON 03 FEB 2006

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=> file reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:18:39 ON 03 FEB 2006

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STRUCTURE FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4

DICTIONARY FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

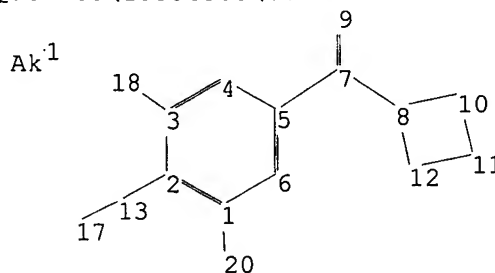
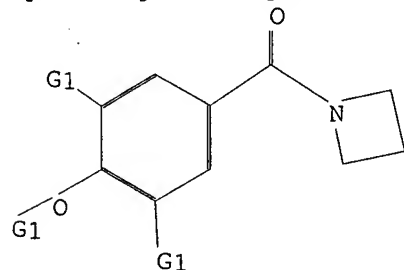
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10804505\e.str



chain nodes :

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7 9 13 15 17 18 20
ring nodes :
1 2 3 4 5 6 8 10 11 12
chain bonds :
1-20 2-13 3-18 5-7 7-8 7-9 13-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-10 8-12 10-11 11-12
exact/norm bonds :
1-20 2-13 3-18 7-8 7-9 8-10 8-12 10-11 11-12 13-17
exact bonds :
5-7
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:H, [*1]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:Atom
11:Atom 12:Atom 13:CLASS 15:CLASS 17:CLASS 18:CLASS 20:CLASS

Generic attributes :

15:

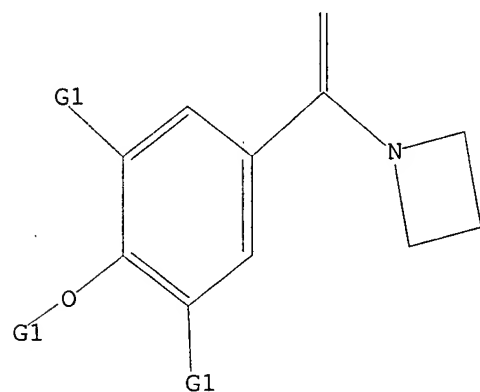
Number of Carbon Atoms : less than 7

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 H, [@1]

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:18:57 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 19769 TO ITERATE

10.1% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

0 ANSWERS

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 386964 TO 403796
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:19:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 393651 TO ITERATE

100.0% PROCESSED 393651 ITERATIONS 37 ANSWERS
SEARCH TIME: 00.00.08

L3 37 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 166.94 167.15

FILE 'HCAPLUS' ENTERED AT 14:19:16 ON 03 FEB 2006
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FILE COVERS 1907 - 3 Feb 2006 VOL 144 ISS 7
FILE LAST UPDATED: 2 Feb 2006 (20060202/ED)

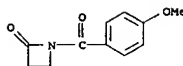
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 20 L3
=> d ibib abs hitstr 1-20

L4 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1232819 HCAPLUS
 DOCUMENT NUMBER: 144:102803
 TITLE: Different Transition-State Structures for the Reactions of β -Lactams and Analogous β -Sultams with Serine β -Lactamases
 AUTHOR(S): Tsang, Wing Y.; Ahmed, Naveed; Hinchliffe, Paul S.; Wood, J. Matthew; Harding, Lindsay P.; Laws, Andrew P.; Page, Michael I.
 CORPORATE SOURCE: Department of Chemical and Biological Sciences, University of Huddersfield, Queensgate /Huddersfield, HD1 3DH, USA
 SOURCE: Journal of the American Chemical Society (2005), 127(49), 17556-17564
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB β -Sultams are the sulfonyl analogs of β -lactams, and N-acyl β -sultams are novel inactivators of the class C β -lactamase of *Enterobacter cloacae* P99. They sulfonylate the active site serine residue to form a sulfonate ester which subsequently undergoes C-O bond fission and formation of a dehydroalanine residue by elimination of the sulfonate anion as shown by electrospray ionization mass spectroscopy. The analogous N-acyl β -lactams are substrates for β -lactamase and undergo enzyme-catalyzed hydrolysis presumably by the normal acylation-deacylation process. The rates of acylation of the enzyme by the β -lactams, measured by the second-order rate constant for hydrolysis, k_{cat}/K_m , and those of sulfonylation by the β -sultams, measured by the second-order rate constant for inactivation, k_i , both show a similar pH dependence to that exhibited by the β -lactamase-catalyzed hydrolysis of β -lactam antibiotics. Electron-withdrawing groups in the aryl residue of the leaving group of N-acyl β -lactams increase the rate of alkaline hydrolysis and give a Bronsted ρ of -0.55, indicative of a late transition state for rate-limiting formation of the tetrahedral intermediate. Interestingly, the corresponding Bronsted ρ for the β -lactamase-catalyzed hydrolysis of the same substrates is -0.06, indicative of an earlier transition state for the enzyme-catalyzed reaction. By contrast, although the Bronsted ρ for the alkaline hydrolysis of N-acyl β -sultams is -0.73, similar to that for the β -lactams, that for the sulfonylation of β -lactamase by these compds. is -1.46, compatible with significant amide anion expulsion/S-N fission in the transition state. In this case, the enzyme reaction displays a later transition state compared with hydroxide-ion-catalyzed hydrolysis of the β -sultam.
 IT 873073-29-1P
 RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (different transition-state structures for reactions of β -lactams and analogous β -sultams with serine β -lactamases)
 RN 873073-29-1 HCAPLUS
 CN INDEX NAME NOT YET ASSIGNED

L4 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

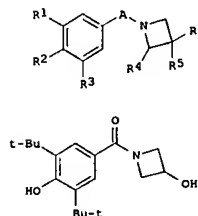
L4 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:823313 HCAPLUS
 DOCUMENT NUMBER: 143:229708
 TITLE: A preparation of azetidine derivatives, useful as COX-1/COX-2 inhibitors
 INVENTOR(S): Altisen, Rosa Cuberes; Constansa, Jordi Frigola; Alvarez, Mathieu Ines
 PATENT ASSIGNEE(S): Spain
 SOURCE: U.S. Pat. Appl. Publ., 21 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005182041	A1	20050818	US 2004-804505	20040319
ES 2244313	A1	20051201	ES 2004-363	20040216
WO 2005077896	A1	20050825	WO 2005-EP1657	20050216

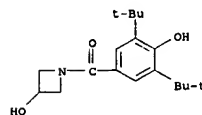
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: ES 2004-363 A 20040216
 US 2004-804505 A 20040319

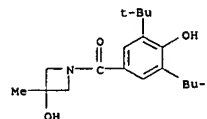
OTHER SOURCE(S): MARPAT 143:229708
 GI



L4 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 AB The invention relates to a preparation of azetidine derivs. of formula I (wherein: A is C(O), CH2, or CH2C(O) bonded to azetidine via carbonyl carbon atom; R1 and R3 are independently H or aliphatic group; R2 is H, OH, or alkoxy; R4 is H, aryl, or aliphatic group; R5 and R6 are independently selected from H, halogen, OH, aliphatic group, or NH2, etc.), useful as COX-1/COX-2 inhibitors. For instance, azetidine derivative II (rats, analgesia test: ED50 = 0.4 mg/kg, test for activity against edema: ED50 = 3 mg/kg, antiarthritic activity: ED50 = 0.5 mg/kg) was prepared via amidation of 3,5-di-tert-butyl-4-hydroxybenzoyl chloride by azetidin-3-ol hydrochloride with a yield of 30%.
 IT 862780-46-9P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of azetidine derivs. useful as COX-1/COX-2 inhibitors)
 RN 862780-46-9 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]- (9CI) (CA INDEX NAME)

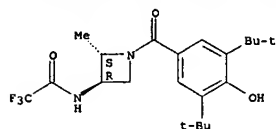


IT 862780-47-0P 862780-52-7P 862780-55-0P
 862780-56-1P 862780-57-2P 862780-58-3P
 862780-60-7P 862780-61-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of azetidine derivs. useful as COX-1/COX-2 inhibitors)
 RN 862780-47-0 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-3-methyl- (9CI) (CA INDEX NAME)

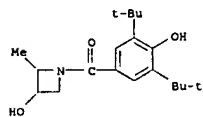


RN 862780-52-7 HCAPLUS
 CN Acetamide, N-[(2S,3R)-1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-2-methyl-3-azetidiny]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

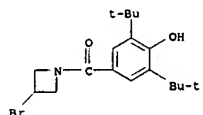
L4 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



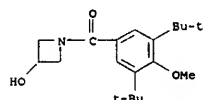
RN 862780-55-0 HCAPLUS
CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 862780-56-1 HCAPLUS
CN Azetidine, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-3-bromo- (9CI) (CA INDEX NAME)



RN 862780-57-2 HCAPLUS
CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-methoxybenzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:928619 HCAPLUS

DOCUMENT NUMBER: 142:56031

TITLE: Cyclopropyl building blocks for organic synthesis, 102. A convenient new synthesis of 3-substituted β-lactams formally derived from 1-(aminomethyl)cyclopropanecarboxylic acids

AUTHOR(S): Zanobini, Alessandra; Gensini, Martina; Magull, Joerg;

CORPORATE SOURCE: Institut fuer Organische und Biomolekulare Chemie, Georg-August-Universitaet, Goettingen, 37077, Germany

SOURCE: European Journal of Organic Chemistry (2004), (20), 4158-4166

CODEN: EJOCHF; ISSN: 1434-193X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:56031

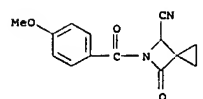
AB 1,3-Dipolar cycloaddn. of N-benzyl-C-(methoxycarbonyl)-nitron, N-benzyl-C-phenylnitron, N-benzyl-C-cyanonitron, N-(p-methoxybenzyl)-C-cyanonitron, N-phenyl- and N-(2-pyridyl)-C-methylnitron to bicyclopolyimides gave the corresponding cycloadducts. Treatment of these bicyclopolyimides with trifluoroacetic acid in acetonitrile furnished the corresponding 3-spirocyclopropanated β-lactams. The structures of one cycloadduct and a β-lactam were proven by x-ray crystal structure analyses. Thus, this new method furnishes compds. with a 5-azaspiro[2.3]hexan-4-one skeleton in 68-94% overall yield in two simple steps. β-Lactams were converted into their N-acyl derivs. Heating of the β-lactams with tert-Bu glycinate or tert-Bu phenylalaninate in DMF led to ring-opening of the β-lactam moiety to give β-dipeptides or amide. Some β-Lactams turned out not to be transformable into such peptide products.

IT 808770-86-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of cyclopropyl building blocks for the synthesis of 3-substituted β-lactams via 1,3-dipolar cycloaddn. and ring opening reactions)

RN 808770-86-7 HCAPLUS

CN 5-Azaspiro[2.3]hexane-4-carbonitrile, 5-(4-methoxybenzoyl)-6-oxo- (9CI) (CA INDEX NAME)



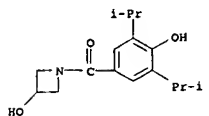
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS

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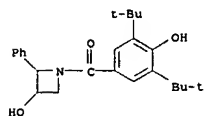
L4 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 862780-58-3 HCAPLUS

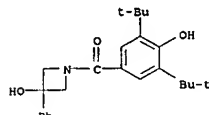
CN 3-Azetidinol, 1-[4-hydroxy-3,5-bis(1-methylethyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 862780-60-7 HCAPLUS
CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-2-phenyl- (9CI) (CA INDEX NAME)



RN 862780-61-8 HCAPLUS
CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-3-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:310829 HCAPLUS

DOCUMENT NUMBER: 140:303552

TITLE: Preparation of β-amino acid derivatives as inhibitors of matrix metalloproteases and TNF-α

INVENTOR(S): Duan, Jingwu; King, Bryan W.; Decicco, Carl; Maduskuie, Thomas P.; Voss, Mathew E.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 150 pp.

DOCUMENT TYPE: CODEN: USXXCO

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: English

PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004072802	A1	20040415	US 2002-267207	20021009
PRIORITY APPLN. INFO.:			US 2002-267207	20021009

OTHER SOURCE(S): MARPAT 140:303552
AB Novel β-amino acid derivs. A-CR3R4aCR2R4NR1CO-X-2-Us-Ya-Ya-Za [A = CO2H, SH, CH2SH, S(O)Ra-NH (Ra = H, alkyl), P(O)(OH)2, etc.; X, Ya is absent or alkylene, alkenylene or alkynylene; 2 is absent or substituted C3-13 carbocycle or 5-14 membered heterocycle; Ua is absent or O, NRa1 [Ra1 = H, (un)substituted alkyl, alkenyl or alkynyl; Ra and Ra1 may form

a ring], CO, CO2, O2C, CONRa1, S(O)p (p = 0-2), etc.; Ya is absent or O, NRa1, S(O)p or CO; Za is H, substituted C3-13 carbocycle or 5-14 membered heterocycle; R1 is H, alkyl, Ph, benzyl; R2 is Q (Q is H, substituted carbocycle or heterocycle), alkylene-Q, (CRaRa1)r1Q (CRaRa1)r-Q (r, r1 = 0-4), (CRaRa1)r1NRa (CRaRa1)r-Q, etc.; R3 = Q1 (Q1 is any group given for Q), alkylene-Q1, (CRaRa1)r1Q (CRaRa1)r-Q1, (CRaRa1)r1NRa (CRaRa1)r-Q1, etc.;

R4, R4a = H, substituted alkyl, alkenyl or alkynyl; alternatively R1 and R2, R1 and R3, R3 and R4a may form rings (with provisos)] or a stereoisomer or pharmaceutically acceptable salt were prepared as metalloprotease and TNF-α inhibitors. Thus, N-hydroxy-1-[(4-(2-methyl-4-quinolinyl)methoxy)phenyl]acetyl]-3-azetidinecarboxamide was prepared by a multistep procedure involving reactions of Me 4-hydroxyphenylacetate, 2-methyl-4-quinolinylmethanol, and 3-azetidinecarboxylic acid Me ester.

IT 362697-32-3P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

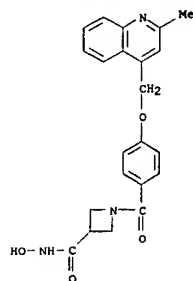
(Uses)

(preparation of β-amino acid derivs. as inhibitors of matrix metalloproteases and TNF-α)

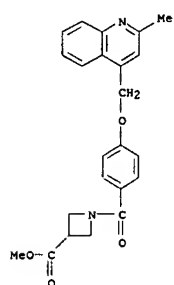
RN 362697-32-3 HCAPLUS

CN 3-Azetidinecarboxamide, N-hydroxy-1-[4-[(2-methyl-4-quinolinyl)methoxy]benzoyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 362703-18-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of β -amino acid derivs. as inhibitors of matrix
 metalloproteases and TNF- α)
 RN 362703-18-2 HCAPLUS
 CN 3-Azetidinecarboxylic acid,
 1-[4-[(2-methyl-4-quinolinyl)methoxy]benzoyl]-
 , methyl ester (9CI) (CA INDEX NAME)



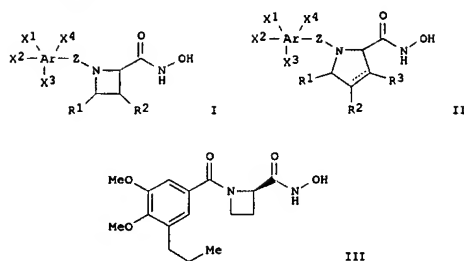
L4 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:60463 HCAPLUS
 DOCUMENT NUMBER: 140:111265
 TITLE: Preparation of azetidinecarboxylic acid and
 pyrrolidinecarboxylic acid N-hydroxyamide derivatives
 as antibacterial agents
 INVENTOR(S): Raju, Bore G.; Odowd, Hardwin; Gao, Hongwu; Patel,
 Dinesh V.; Trias, Joaquim
 PATENT ASSIGNER(S): Vicuron Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 172 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004007444	A2	20040122	WO 2003-US21838	20030711
WO 2004007444	A3	20040910		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2492035	A2	20040115	CA 2003-2492035	20030711
EP 1539744	A2	20050615	EP 2003-748939	20030711
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005536510	T2	20051202	JP 2004-521744	20030711
PRIORITY APPLN. INFO.:			US 2002-394862P	P 20020711
			WO 2003-US21838	W 20030711

OTHER SOURCE(S): MARPAT 140:111265
 GI

L4 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L4 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



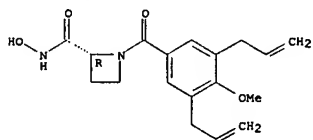
AB Title compds. I or II [wherein A = (hetero)aryl; X1-X4 = independently H, (halo)alkyl, (halo)alkylthio, (halo)alkylsulfinyl, (halo)alkylsulfonyl, hydroxy(alkyl), alkoxy(alkyl), haloalkoxy, alkenyl, alkenyloxy(alkyl), alkynyl(oxy), NO2, halo, cycloalkyl(alkyl), arylalkoxy(alkyl), haloarylalk(yn)yl, alkylsilylalkynyl, aryl, aminocarbonylalkyl, carboxylate, carboxy, carboxamido, or (un)substituted heterocyclyl; R1 and R2 = independently H, (halo)alkyl, hydroxyalkyl, alkenyl, alkynyl, cycloalkyl, halo, OH, alkoxy, or (un)substituted (hetero)aryl or aryloxy; R3 = H, (halo)alkyl, hydroxyalkyl, alkenyl, alkynyl, cycloalkyl, halo, OH, alkoxy, or (un)substituted (hetero)aryl or aryloxy; Z = CH2 or CO; and pharmaceutically acceptable salts, tautomers, and prodrugs thereof] were prepared as inhibitors of UDP-3-O-(R-3-hydroxymyristoyl)-N-acetylglucosamine deacetylase (LpxC deacetylase), an enzyme present in gram neg. bacteria (no data). For example, azetidine-2R-carboxylic acid Me ester hydrochloride salt was coupled with 3,4-dimethoxy-5-propylbenzoic acid in DMF to give the benzoylazetidiny derivative (81%). The ester was treated with aqueous hydroxylamine in dioxane to afford III. Preferred compds. of the invention have MIC ≤ 128 μ g/mL against at least one of a specified list of bacteria (no data). Thus, I, II, and their pharmaceutical compns. are useful as antimicrobials and antibiotics (no data).

IT 647856-14-2P, (R)-1-(3,5-Diallyl-4-methoxybenzoyl)azetidine-2-carboxylic acid hydroxyamide 647856-15-3P, (R)-1-(4-Methoxy-3,5-dipropylbenzoyl)azetidine-2-carboxylic acid hydroxyamide 647856-18-6P, (R)-1-(4-Methoxy-3-propylbenzoyl)azetidine-2-carboxylic acid hydroxyamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (antibacterial agent; preparation of azetidinecarboxylic acid and pyrrolidinecarboxylic acid N-hydroxyamide derivs. as antibacterial agents)

L4 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

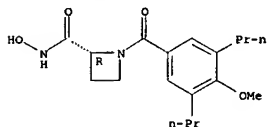
RN 647856-14-2 HCAPLUS
 CN 2-Azetidinecarboxamide, N-hydroxy-1-(4-methoxy-3,5-di-2-propenylbenzoyl)-,
 (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



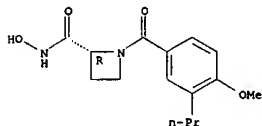
RN 647856-15-3 HCAPLUS
 CN 2-Azetidinecarboxamide, N-hydroxy-1-(4-methoxy-3,5-dipropylbenzoyl)-,
 (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 647856-18-6 HCAPLUS
 CN 2-Azetidinecarboxamide, N-hydroxy-1-(4-methoxy-3-propylbenzoyl)-, (2R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

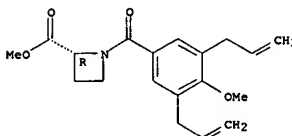


IT 647856-16-4, (R)-1-(3,5-Diallyl-4-methoxybenzoyl)azetidine-2-
 carboxylic acid methyl ester

L4 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of azetidinecarboxylic acid and pyrrolidinecarboxylic acid
 N-hydroxyamide derivs. as antibacterial agents)
 RN 647856-16-4 HCAPLUS
 CN 2-Azetidinecarboxylic acid, 1-(4-methoxy-3,5-di-2-propenylbenzoyl)-,
 methyl ester, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:887103 HCAPLUS

DOCUMENT NUMBER: 140:93653

TITLE: An Evaluation of Amide Group Planarity in
 7-Azabicyclo[2.2.1]heptane Amides. Low Amide Bond
 Rotation Barrier in Solution
 Otsu, Yuko; Nagae, Osamu; Naruse, Yuji; Inagaki,
 Satoshi; Ohno, Masashi; Yamaguchi, Kentaro; Yamamoto,
 Gaku; Uchiyama, Masanobu; Ohwada, Tomohiko
 CORPORATE SOURCE: Graduate School of Pharmaceutical Sciences, The
 University of Tokyo, Bunkyo, Tokyo, 113-0033, Japan
 SOURCE: Journal of the American Chemical Society (2003),
 125(49), 15191-15199
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:93653

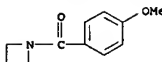
AB Here we show that amides of bicyclic 7-azabicyclo[2.2.1]heptane are
 intrinsically nitrogen-pyramidal. Single-crystal X-ray diffraction
 structures of some relevant bicyclic amides, including the prototype
 N-benzoyl-7-azabicyclo[2.2.1]heptane, exhibited nitrogen-pyramidalization
 in the solid state. We evaluated the rotational barriers about the amide
 bonds of various N-benzoyl-7-azabicyclo[2.2.1]heptanes in solution. The
 observed reduction of the rotational barriers of the bicyclic amides, as compared
 with those of the monocyclic pyrrolidine amides, is consistent with a
 nitrogen-pyramidal structure of 7-azabicyclo[2.2.1]heptane amides in
 solution.

A good correlation was found between the magnitudes of the rotational
 barrier of N-benzoyl-7-azabicyclo[2.2.1]heptanes bearing
 para-substituents on the benzoyl group and the Hammett's σ_p^+ consts., and this is
 consistent with the similarity of the solution structures. Calcns. with
 the d. functional theory reproduced the nitrogen-pyramidal structures of
 these bicyclic amides as energy min. The calculated magnitudes of electron
 delocalization from the nitrogen nonbonding nN orbital to the carbonyl
 π^* orbital of the amide group evaluated by application of the bond
 model theory correlated well with the rotational barriers of a variety of
 amides, including amides of 7-azabicyclo[2.2.1]heptane. The nonplanarity
 of the amide nitrogen of 7-azabicyclo[2.2.1]heptanes would be derived
 from nitrogen-pyramidalization due to the CNC angle strain and twisting of the
 amide bond due to the allylic strain.

IT 643026-89-SP
 RL: PEP (Physical, engineering or chemical process); PRP (Properties);
 PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC
 (Process)
 (evaluation of amide group planarity in azabicycloheptane amides)

RN 643026-89-3 HCAPLUS
 CN Azetidine, 1-(4-methoxybenzoyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2001:71343 HCAPLUS

DOCUMENT NUMBER: 135:272894

TITLE:

Preparation of β -amino acid derivatives as inhibitors of matrix metalloproteases and TNF- α

INVENTOR(S): Duan, Jingwu; King, Bryan W.; Decicco, Carl; Maduskuie, Thomas P., Jr.; Voss, Matthew E.

PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA

SOURCE: PCT Int. Appl., 483 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

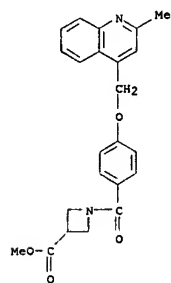
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070734	A2	20010927	WO 2001-US8336	20010315
WO 2001070734	A3	20020314		
W: AT, AU, BR, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, HU, IL, IN, JP, KR, LT, LU, LV, NZ, PL, PT, RO, SE, SG, SI, SK, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2400168	AA	20010927	CA 2001-2400168	20010315
AU 2001050850	A5	20011003	AU 2001-50850	20010315
EP 1263756	A2	20021211	EP 2001-924171	20010315
EP 1263756	B1	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR				
BR 2001009469	A	20030429	BR 2001-9469	20010315
JP 2003528097	T2	20030924	JP 2001-568935	20010315
AT 260272	E	20040315	AT 2001-924171	20010315
NZ 521245	A	20040430	NZ 2001-521245	20010315
ES 2215893	T3	20041016	ES 2001-1924171	20010315
US 2002013341	A1	20020131	US 2001-811116	20010316
US 6495565	B2	20021217		
HK 1049334	A1	20040716	HK 2003-101437	20030226
PRIORITY APPLN. INFO.:			US 2000-190183P	P 20000317
			US 2000-235467P	P 20000926
			US 2000-252062P	P 20001120
			WO 2001-US8336	W 20010315

OTHER SOURCE(S):

MARPAT 135:272894

AB Novel β -amino acid derivs. A-CR3R4aCR2R4NR1CO-X-Z-Ua-Xa-Ya-Za [A = CO₂H, SH, CH₂SH, S(O)Ra:NH (Ra = H, alkyl), P(O)(OH)₂, etc.; X, Xa is absent or alkylene, alkenylene or alkynylene; Z is absent or substituted C3-13 carbocycle or 5-14 membered heterocycle; Ua is absent or O, NRal (Ral = H, (un)substituted alkyl, alkenyl or alkynyl; Ra and Ral may form a ring), CO, CO₂, O₂C, CONRa1, S(O)p (p = 0-2), etc.; Ya is absent or O, NRal, S(O)p or CO; Za is H, substituted C3-13 carbocycle or 5-14 membered heterocycle; R1 is H, alkyl, Ph, benzyl; R2 is Q (Q is H, substituted

L4 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



L4 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

carbocycle or heterocycle), alkylene-Q, (CraRai)r1O(CraRai)r-Q (r, r1 = 0-4), (CraRai)r1Nra(CraRai)r-Q, etc.; R3 = Q1 (Q1 is any group given for Q), alkylene-Q1, (CraRai)r1O(CraRai)r-Q1, (CraRai)r1Nra(CraRai)r-Q1, etc.;

R4, R4a = H, substituted alkyl, alkenyl or alkynyl; alternatively R1 and R2, R1 and R3, R3 and R4a may form rings (with provisos) or a stereoisomer or pharmaceutically acceptable salt were prepd. as metalloprotease and TNF- α inhibitors. Thus, N-hydroxy-1-[(4-[(2-methyl-4-quinolinyl)methoxy]phenyl)acetyl]-3-azetidinecarboxamide was prepd. by a multistep procedure involving reactions of Me 4-hydroxyphenylacetate, 2-methyl-4-quinolinylmethanol, and 3-azetidinecarboxylic acid Me ester.

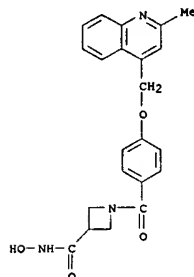
IT 362697-32-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of β -amino acid derivs. as inhibitors of matrix metalloproteases and TNF- α)

RN 362697-32-3 HCAPLUS

CN 3-Azetidinecarboxamide, N-hydroxy-1-[4-[(2-methyl-4-quinolinyl)methoxy]benzoyl]- (9CI) (CA INDEX NAME)



IT 362703-18-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of β -amino acid derivs. as inhibitors of matrix metalloproteases and TNF- α)

RN 362703-18-2 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[4-[(2-methyl-4-quinolinyl)methoxy]benzoyl]-, methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2000:210150 HCAPLUS

DOCUMENT NUMBER: 132:251067

TITLE:

Novel amidine derivatives, their preparation and application as inhibitors of NO synthase and lipid peroxidation, and pharmaceutical compositions containing them

INVENTOR(S): Auvin, Serge; Chabrier de Lassaulniere,

Pierre-Etienne;

PATENT ASSIGNEE(S): Harnett, Jeremiah; Fons, Dominique; Ulibarri, Gerard

Societe de Conseils de Recherches et d'Applications Scientifiques (S.C.R.A.S., Fr.

SOURCE: PCT Int. Appl., 119 pp.

DOCUMENT TYPE: Patent

LANGUAGE: French

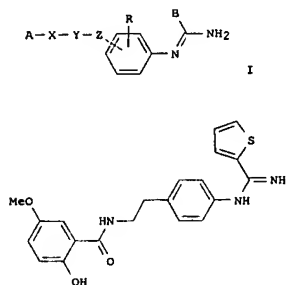
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000017190	A2	20000330	WO 1999-FR2250	19990922
WO 2000017190	A3	20001026		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SH, TD, TG				
FR 2783519	A1	20000324	FR 1998-11868	19980923
FR 2783519	B1	20030124		
CA 2344224	AA	20000330	CA 1999-2344224	19990922
AU 9956314	A1	20000410	AU 1999-56314	19990922
AU 766373	B2	20031016		
BR 9913904	A	20010703	BR 1999-13904	19990922
EP 1115719	A2	20010718	EP 1999-943024	19990922
EP 1115719	B1	20030305		
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JP 2002526493	T2	20020820	JP 2000-574099	19990922
AT 233750	E	20030315	AT 1999-943024	19990922
EP 1318149	A1	20030611	EP 2002-26170	19990922
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PT 1115719	T	20030731	PT 1999-943024	19990922
NZ 511189	A	20030926	NZ 1999-511189	19990922
ES 2194501	T3	20031116	ES 1999-943024	19990922
RU 2238939	C2	20041027	RU 2001-111022	19990922
IL 141998	A1	20050925	IL 1999-141998	19990922
US 6653312	B1	20031125	US 2001-787467	20010316
NO 2001001479	A	20010518	NO 2001-1479	20010322
ZA 2001003204	A	20020919	ZA 2001-3204	20010419
HK 1042486	A1	20050225	HK 2002-103892	20020524
US 2005261269	A1	20051124	US 2003-662183	20030912
PRIORITY APPLN. INFO.:			FR 1998-11868	A 19980923
			EP 1999-943024	A3 19990922

L4 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 WO 1999-FR2250 W 19990922
 US 2001-787467 A3 20010316

OTHER SOURCE(S): MARPAT 132:251067
 GI



AB The invention concerns novel amidine deriva., including compds. I [R = H, alkyl, alkoxy; A = certain substituted aryl or (un)substituted heteroaryl groups; B = alkyl, (un)substituted aryl or heteroaryl, (un)substituted or heterocyclic amino; X = bond, (CH2)m, O(CH2)m, (CH2)mO, S(CH2)m, O(CH2)mCO, CH:CH, etc.; Y = bond, (CH2)n, (CH2)rQ(CH2)s; Q = piperazine, homopiperazine, piperidine, pyrrolidine, azetidine, thiazolidine, saturated C3-7 carbocycles, etc; Z = bond, (CH2)pO(CH2)q, (CH2)pS(CH2)q, (CH2)pNH(CH2)q, etc; m, n, p, q, r, s = 0-5], as well as addnl. specific compds. In particular, 2-hydroxy-5-methoxy-N-[2-[4-[(2-thienyliminomethyl)amino]phenyl]ethyl]benzamide (II) and 2,5-dihydroxy-N-[2-[4-[(2-thienyliminomethyl)amino]phenyl]ethyl]benzamide are disclosed. Also disclosed are the use of I as medicines, and pharmaceutical compds. containing them. For instance, amidation of 5-methoxysalicylic acid with 4-nitrophenethylamine-HCl, followed by hydrogenation of the nitro group to amino, condensation of the amine with 5-methyl-2-thiophenethiocarboximide-HI, and acidification in acetone, gave II.HCl. The IC50 of selected I, including II.HCl, against rat neuronal NO synthase in vitro, was < 3.5 μM.
 IT 262614-42-6P 262614-43-7P

L4 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1997:613831 HCAPLUS
 DOCUMENT NUMBER: 127:278203
 TITLE: Benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin receptor antagonists
 INVENTOR(S): Bock, Mark G.; Evans, Ben E.; Williams, Peter D.; Freidinger, Roger M.; Pettibone, Douglas J.; Hobbs, Doug W.; Anderson, Paul S.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: U.S., 140 pp., Cont.-in-part of U.S. Ser. No. 92,840, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

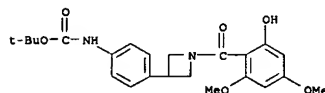
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5665719	A	19970909	US 1995-470693	19950606
PRIORITY APPLN. INFO.:			US 1993-92840	B2 19930716

 OTHER SOURCE(S): MARPAT 127:278203
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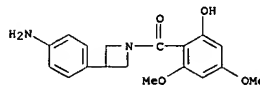
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Compds. of formula I [X = O, NH, or NR8; Y = CH2, CHR8, or C(R8)2; R1 = camphor-10-yl, alkoxy, styryl, hydroxystyryl, furyl, (un)substituted phenyl, naphthyl, indolyl, tetrahydronaphthyl, (un)substituted pyridyl, pyrazinyl, (un)substituted cyclohexyl or Ph; R2 = H, alkoxy, alkyl, amino, alkylcarbonylamino, nitro, or halo; R3 = H, alkoxy, carbonyl, cyano, or carbamoyl; and m = 0 or 1] and various analogs are disclosed. The compds. as useful as oxytocin (OT) and vasopressin receptor antagonists. Over 275 synthetic examples are given. For instance, Me 2,4-dihydroxybenzoate underwent Mitsunobu etherification with N-(tert-butoxycarbonyl)-4-piperidinol (51%), followed by O-methylation of the remaining hydroxyl (88%), saponification of the Me ester (95%), and coupling of the resultant acid with 1-(4-piperidinyl)-1,2-dihydro-4H-3,1-benzoxazin-2-one (HCl salt) using EDC and HOBT (88%), to give title compound II [R = CO2Bu-tert]. The latter was deprotected with HCl in dioxane (93%) and acetylated with Ac2O (89%) to give title compound II [R = Ac]. The latter inhibited binding of [3H]-OT to rat uterine OT receptors in vitro with an IC50 of 47 nM.
 IT 162045-63-8P 162045-66-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of benzoxazinone and benzopyrimidinone derivs. as oxytocin and vasopressin receptor antagonists)
 RN 162045-63-8 HCAPLUS
 CN 3-Azetidinamine, 1-(2,4-dimethoxybenzoyl)-N-[2-(hydroxymethyl)phenyl]-

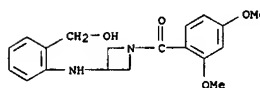
L4 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; prepn. of amidine derivs. as inhibitors of NO synthase and/or lipid peroxidn.)
 RN 262614-42-6 HCAPLUS
 CN Carbamic acid, [4-[(1-(2-hydroxy-4,6-dimethoxybenzoyl)-3-azetidinyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



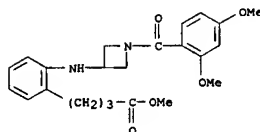
RN 262614-43-7 HCAPLUS
 CN Azetidine, 3-(4-aminophenyl)-1-(2-hydroxy-4,6-dimethoxybenzoyl)- (9CI) (CA INDEX NAME)



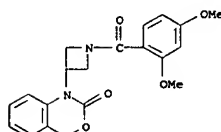
L4 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (9CI) (CA INDEX NAME)



RN 162045-66-1 HCAPLUS
 CN Benzenebutanoic acid, 2-[(1-(2,4-dimethoxybenzoyl)-3-azetidinyl)amino]-, methyl ester (9CI) (CA INDEX NAME)

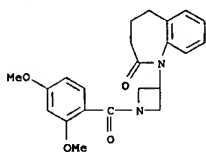


IT 162042-77-5P 162042-79-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzoxazinone and benzopyrimidinone derivs. as oxytocin and vasopressin receptor antagonists)
 RN 162042-77-5 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2-oxo-2H-3,1-benzoxazin-1(4H)-yl)- (9CI) (CA INDEX NAME)



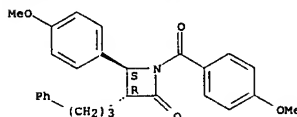
RN 162042-79-7 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2,3,4,5-tetrahydro-2-oxo-1H-1-benzazepin-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L4 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:513507 HCAPLUS
 DOCUMENT NUMBER: 125:131668
 TITLE: 2-Azetidinone Cholesterol Absorption Inhibitors: Structure-Activity Relationships on the Heterocyclic Nucleus
 AUTHOR(S): Clader, John W.; Burnett, Duane A.; Caplen, Mary Ann; Domalski, Martin S.; Dugar, Sundee; Vaccaro, Wayne; Sher, Rosy; Browne, Margaret E.; Zhao, Hongrong; et al.
 CORPORATE SOURCE: Schering-Plough Research Institute, Kenilworth, NJ, 07033-0539, USA
 SOURCE: Journal of Medicinal Chemistry (1996), 39(19), 3684-3693
 CODEN: JMCNAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A series of azetidinone cholesterol absorption inhibitors related to SCH 48461 was prepared, and evaluated for their ability to inhibit hepatic cholesteryl ester formation in a cholesterol-fed hamster model. Although originally designed as acyl CoA:cholesterol acyltransferase (ACAT) inhibitors, comparison of in vivo potency with in vitro activity in a microsomal ACAT assay indicates no correlation between activity in these
 2 models. The mol. mechanism by which these compds. inhibit cholesterol absorption is unknown. Despite this limitation, examination of the in vivo activity of a range of compds. has revealed clear structure-activity relationships consistent with a well-defined mol. target. The details of these structure-activity relationships and their implications on the nature of the putative pharmacophore are discussed.
 IT 179763-35-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) [structure-activity relations of azetidinone cholesterol absorption inhibitors]
 RN 179763-35-0 HCAPLUS
 CN 2-Azetidinone, 1-(4-methoxybenzoyl)-4-(4-methoxyphenyl)-3-(3-phenylpropyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

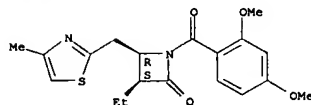
L4 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:954289 HCAPLUS
 DOCUMENT NUMBER: 124:116909
 TITLE: Simple and condensed β -lactams. Part 23. Synthesis of some compounds related to the monobactams, carrying non-acylamino substituents in position 3 and various heterocyclyl or heterocyclylmethyl substituents in position 4 of the β -lactam ring
 AUTHOR(S): Fetter, Jozsef; Bertha, Ferenc; Czuppon, Tibor; Kajtar-Peredy, Maria; Lempert, Karoly
 CORPORATE SOURCE: Dep. Org. Chem., Tech. Univ. Budapest, Budapest, H-1521, Hung.
 SOURCE: Journal of Chemical Research, Synopses (1995), (11), 444-5
 CODEN: JRPSDC; ISSN: 0308-2342
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:116909
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Thirteen new racemic monobactams, I (trans or cis, M = Na, H; R1 = alkyl, substituted alkyl; R2 = Me, NH2, NHCHO), II, III, IV (cis or trans, R3 = Et, CHMe2), V and VI, carrying non-acylamino substituents in position 3, and heterocyclyl or heterocyclylmethyl substituents in position 4 of the β -lactam ring, as well as 'reversed' monobactam analog, were synthesized. None of the prepared compds. exhibited any microbiol. activity.

IT 172698-00-9P
 RL: BYP (Byproduct); PREP (Preparation) [synthesis of some compds. related to the monobactams and their antimicrobiol. activity]
 RN 172698-00-9 HCAPLUS
 CN 2-Azetidinone, 1-(2,4-dimethoxybenzoyl)-3-ethyl-4-[(4-methyl-2-thiazolyl)methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1995:470323 HCAPLUS

DOCUMENT NUMBER: 123:276051

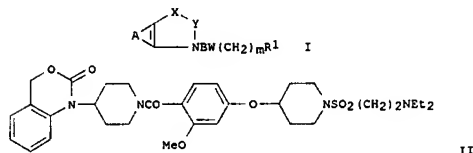
TITLE: Benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin receptor antagonists
 Bock, Mark G.; Evans, Ben E.; Hobbs, Doug W.; Williams, Peter D.; Anderson, Paul S.; Freidinger, Roger M.; Pettibone, Douglas J.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 385 pp.
 CODEN: P1XXD2

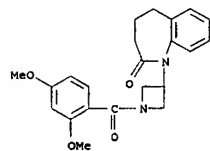
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9502405	A1	19950126	WO 1994-US7784	19940714
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LT, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2166975	AA	19950126	CA 1994-2166975	19940714
CA 2166975	C	20050405		
AU 9475132	A1	19950213	AU 1994-75132	19940714
AU 691829	B2	19980528		
EP 714299	A1	19960605	EP 1994-925092	19940714
EP 714299	B1	20020424		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09500134	T2	19970107	JP 1994-504656	19940714
AT 216580	E	20020515	AT 1994-925092	19940714
PRIORITY APPLN. INFO.:			US 1993-92840	A 19930716
			WO 1994-US7784	W 19940714

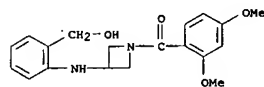
OTHER SOURCE(S): MARPAT 123:276051
 GI



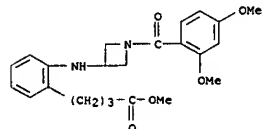
L4 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



IT 162045-63-8P 162045-66-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin receptor antagonists)
 RN 162045-63-8 HCAPLUS
 CN 3-Azetidinamine, 1-(2,4-dimethoxybenzoyl)-N-[2-(hydroxymethyl)phenyl]- (9CI) (CA INDEX NAME)



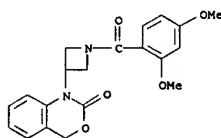
RN 162045-66-1 HCAPLUS
 CN Benzenebutanoic acid, 2-[[1-(2,4-dimethoxybenzoyl)-3-azetidinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

AB Fused N-containing heterocyclic ring system deriva. I (A completes a 5- or 6-membered carbocyclic or N- and/or S-containing heterocyclic ring; X = O, NH, (CH₂)qO, CH₂NH, OCH₂, CH:CH, S, etc.; Y = CH₂, C:O, C:S, C:NH, C:NMe; B = (substituted) N-containing heterocyclic or heterobicyclic ring; W = CH₂, C:O, CO₂, SO₂, C(=NCH₂Ph), etc.; R₁ = (hetero)aryl, C1-5 alkoxy, camphor-10-yl)
 are useful as oxytocin and vasopressin receptor antagonists, e.g. in treatment of preterm labor and dysmenorrhea and in stopping labor preparatory to cesarean delivery. Thus, in competitive radioligand binding assays on rat uterus membrane preps., high-affinity binding of oxytocin-3H was inhibited by 1-[[1-(4-[[1-[(diethylaminoethyl)sulfonyl]-4-piperidinyl]oxy]-2-methoxybenzoyl]piperidin-4-yl)-1,2-dihydro-4H-3,1-benzoxazin-2-one (II) with an IC₅₀ of 23 nM. It was prepared in 7 steps from Me 2,4-dihydroxybenzoate, N-tert-butoxy-4-piperidinol, 1-(4-piperidinyl)-1,2-dihydro-4H-3,1-benzoxazin-2-one-HCl (preparation given), ClCH₂CH₂SO₂Cl, and HNEt₂. Preparation of 277 compds. of formula I is described.

IT 162042-77-5P 162042-79-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin receptor antagonists)
 RN 162042-79-7 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2-oxo-2H-3,1-benzoxazin-1(4H)-yl)- (9CI) (CA INDEX NAME)



RN 162042-79-7 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2,3,4,5-tetrahydro-2-oxo-1H-1-benzazepin-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN

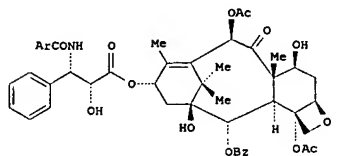
ACCESSION NUMBER: 1995:44917 HCAPLUS

DOCUMENT NUMBER: 122:56244

TITLE: Topliss approach to the synthesis of biologically active substituted N-benzoyl taxol analogs

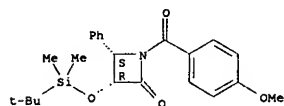
AUTHOR(S): Georg, Gunda I.; Boge, Thomas C.; Cheruvallath, Zacharia S.; Harriman, Geraldine C. B.; Hepperle, Michael; Park, Haeil; Himes, Richard H.
 CORPORATE SOURCE: Dep. Med. Chem., Univ. Kansas, Lawrence, KS, 66045, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (1994), 4(15), 1825-30
 CODEN: BMCLEB; ISSN: 0960-894X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB A series of compds., e.g. I (R = Cl, MeO, 3,4-Cl₂, Me₂N, NO₂, etc.), directed by the Topliss Operational Scheme, were synthesized and evaluated to investigate structure activity relationships of the N-benzoyl moiety of taxol. Evaluation of the newly prepared derivs. in the microtubule assembly assay and for cytotoxicity revealed that they possessed biol. properties similar to taxol.
 IT 160058-87-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction with triethylsilylbaccatin III in synthesis of taxol analogs)
 RN 160058-87-7 HCAPLUS
 CN 2-Azetidinone, 3-[[1-(1,1-dimethylethyl)dimethylsilyloxy]-1-(4-methoxybenzoyl)-4-phenyl-, (3R-cis)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L4 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L4 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:539574 HCAPLUS
 DOCUMENT NUMBER: 119:139574
 TITLE: Preparation of substituted isoserine esters using metal alkoxides and (beta)-lactams
 INVENTOR(S): Holton, Robert A.
 PATENT ASSIGNEE(S): Florida State University, USA
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 28
 PATENT INFORMATION:

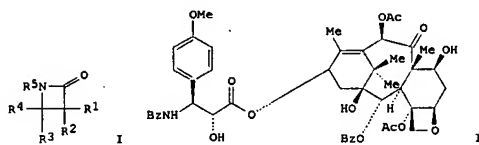
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9306079	A1	19930401	WO 1992-US7990	19920922
W: AU, CA, CS, FI, HU, JP, KP, KR, NO, PL, RU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
CA 2221190	C	20020212	CA 1992-2221190	19920902
ZA 9206827	A	19930315	ZA 1992-6827	19920908
ZA 9206828	A	19930315	ZA 1992-6828	19920908
ZA 9206829	A	19930315	ZA 1992-6829	19920908
ZA 9207038	A	19930514	ZA 1992-7038	19920915
ZA 9207039	A	19931220	ZA 1992-7039	19920915
CA 2098478	AA	19930324	CA 1992-2098478	19920922
CA 2098478	C	19990914		
AU 9226890	A1	19930427	AU 1992-26890	19920922
AU 647971	B2	19940331		
EP 605637	A1	19940713	EP 1992-921316	19920922
EP 605637	B1	19990324		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
JP 07502983	T2	19950330	JP 1993-506299	19920922
JP 3469237	B2	20031125		
HU 71795	A2	19960228	HU 1994-830	19920922
EP 884314	A2	19981216	EP 1998-114788	19920922
EP 884314	A3	20020502		
EP 884314	B1	20040121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
RU 2128654	C1	19990410	RU 1994-44324	19920922
AT 178060	E	19990415	AT 1992-921316	19920922
ES 2132129	T3	19990816	ES 1992-921316	19920922
CZ 287417	B6	20001115	CZ 1994-660	19920922
CZ 287609	B6	20010117	CZ 1994-661	19920922
EP 1193252	A2	20020403	EP 2002-688	19920922
EP 1193252	A3	20031105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
CA 2254273	C	20030325	CA 1992-2254273	19920922
AT 258171	E	20040215	AT 1998-114788	19920922
ES 2214665	T3	20040916	ES 1998-114788	19920922
AU 9339838	A1	19930819	AU 1993-39838	19930527
AU 642392	B3	19931014		
FI 9401325	A	19940504	FI 1994-1325	19940322
FI 113046	B1	20040227		
NO 9401022	A	19940520	NO 1994-1022	19940322
NO 306209	B1	19991004		

L4 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 TW 396159 B 20000701 TW 1994-83103422 19940418
 US 5539103 A 19960723 US 1994-351532 19941207
 US 5723634 A 19960303 US 1995-483309 19950607
 US 6066747 A 20000523 US 1995-522307 19951030
 US 6069260 A 20000530 US 1997-941640 19970930
 US 6479678 B1 20021112 US 2000-517791 20000302
 US 2001014746 A1 20010816 US 2001-804821 20010313
 US 6562962 B2 20030513
 US 2003027855 A1 20030206 US 2002-208418 20020730
 US 6710191 B2 20040323
 US 2003120096 A1 20030626 US 2002-289103 20021106
 US 6683196 B2 20040127
 JP 2004043439 A2 20040212
 US 2004073048 A1 20040415 US 1991-763805 A 19910923
 PRIORITY APPLN. INFO.:

US 1992-862955 A 19920403
 US 1992-863840 A 19920406
 US 1992-863451 A 19920403
 US 1992-863849 A 19920406
 US 1992-900408 A 19920618
 CA 1992-2077394 A3 19920902
 CA 1992-2098478 A3 19920922
 CS 1994-660 A 19920922
 CS 1994-661 A 19920922
 EP 1992-921316 A3 19920922
 EP 1998-114788 A3 19920922
 JP 1993-506299 A3 19920922
 US 1992-949107 B3 19920922
 WO 1992-US7990 A 19920922
 US 1992-967998 B1 19921026
 WO 1994-US2382 W 19940304
 US 1994-263270 B1 19940621
 US 1994-314532 A1 19940928
 US 1994-351532 A3 19941207
 US 1995-483309 A3 19950607
 US 1996-607108 A1 19960226
 US 1997-941640 A1 19970930

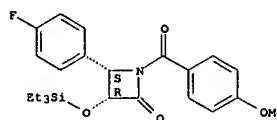
L4 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 2000-517791 A1 20000302
 US 2000-566970 A1 20000509
 US 2002-194343 A1 20020712
 US 2002-289103 A1 20021106

OTHER SOURCE(S): MARPAT 119:139574
 GI



AB A metal alkoxide MOCE1E2E3 (M = alkali metal, E1, E2, E3 = H, aliphatic, aryl, alkanoyloxy) is reacted with a β -lactam I (R1 = (un)protected OH, SH, NH2, R2 = H, aliphatic, aryl, heteroaryl, R3, R4 = aliphatic, heteroaryl, acyl, R5 = acyl, carboxy, thiocarboxy, amido, sulfonyl, phosphoryl) to give isoserine esters R5NHCR3R4CR1R2CO2CE1E2E3 which are reacted with a metal derivative of a taxol derivative to give appropriately substituted isoserine esters, e.g. II.
 IT 149197-26-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (sequential lithiation and esterification by azetidinone derivative of haccatin III derivative in preparation of taxol-related compound)
 RN 149197-26-2 HCAPLUS
 CN 2-Azetidinone, 4-(4-fluorophenyl)-1-(4-methoxybenzoyl)-3-((triethylsilyl)oxy)-, (3R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:449694 HCAPLUS
 DOCUMENT NUMBER: 119:49694
 TITLE: Preparation of substituted taxanes as antitumor agents
 INVENTOR(S): Holton, Robert A.; Nadizadeh, Hossein; Beidiger, Ronald J.; Kim, Seokchan
 PATENT ASSIGNEE(S): Florida State University, USA
 SOURCE: Eur. Pat. Appl., 43 pp.
 CODEM: EPXNDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 28
 PATENT INFORMATION:

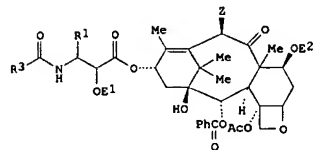
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 534709	A1	19930331	EP 1992-308609	19920922
EP 534709	B1	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE				
US 5250683	A	19931005	US 1992-863451	19920403
CA 2077394	AA	19930324	CA 1992-2077394	19920902
CA 2077394	C	19990406		
CA 2221190	C	20020212	CA 1992-2221190	19920902
AU 9222124	A1	19930325	AU 1992-22124	19920904
AU 655493	B2	19941222		
ZA 9206827	A	19930315	ZA 1992-6827	19920908
ZA 9206828	A	19930315	ZA 1992-6828	19920908
ZA 9206829	A	19930315	ZA 1992-6829	19920908
ZA 9207038	A	19930514	ZA 1992-7038	19920915
ZA 9207039	A	19931220	ZA 1992-7039	19920915
FI 113173	B1	20040315	FI 1992-4228	19920921
NO 9203679	A	19930324	NO 1992-3679	19920922
NO 305205	B1	19990419		
HU 63155	A2	19930728	HU 1992-3024	19920922
HU 215110	B	19981228		
JP 06199824	A2	19940719	JP 1992-276765	19920922
JP 3182231	B2	20010703		
EP 884314	A2	19981216	EP 1998-114788	19920922
EP 884314	A3	20020502		
EP 884314	B1	20040121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
CZ 287417	B6	20001115	CZ 1994-660	19920922
CZ 287609	B6	20010117	CZ 1994-661	19920922
EP 1193252	A2	20020403	EP 2002-688	19920922
EP 1193252	A3	20031105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
AT 231139	E	20030215	AT 1992-308609	19920922
CA 2254273	C	20030325	CA 1992-2254273	19920922
ES 2191005	T3	20030901	ES 1992-308609	19920922
TW 396159	B	20000701	TW 1994-83103422	19940418
US 5539103	A	19960723	US 1994-351532	19941207
US 5723634	A	19980303	US 1995-483309	19950607
US 6066747	A	20000523	US 1995-522307	19951030
US 6069260	A	20000530	US 1997-941640	19970930

L4 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 6479678 B1 20021112 US 2000-517791 20000302
 US 2001014746 A1 20010816 US 2001-804821 20010313
 US 6562962 B2 20030513
 US 2003027855 A1 20030206 US 2002-208418 20020730
 US 6710191 B2 20040323
 US 2003120096 A1 20030626 US 2002-289103 20021106
 US 6683196 B2 20040127
 JP 2004043439 A2 20040212 JP 2003-128200 20030506
 US 2004073048 A1 20040415 US 2003-673897 20030929
 PRIORITY APPLN. INFO.: US 1991-763805 A 19910923

US 1992-863451 A 19920403
 US 1992-862955 A 19920403
 US 1992-863840 A 19920406
 US 1992-863849 A 19920406
 US 1992-900408 A 19920618
 CA 1992-2077394 A3 19920902
 CA 1992-2098478 A3 19920922
 CS 1994-660 A 19920922
 CS 1994-661 A 19920922
 EP 1992-921316 A3 19920922
 EP 1998-114788 A3 19920922
 JP 1993-506299 A3 19920922
 US 1992-949107 B3 19920922
 US 1992-967998 B1 19921026
 WO 1994-US2382 W 19940304
 US 1994-263270 B1 19940621
 US 1994-314532 A1 19940928
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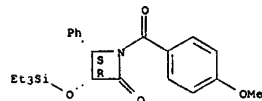
L4 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 2000-566970 A1 20000509
 US 2002-194343 A1 20020712
 US 2002-289103 A1 20021106

OTHER SOURCE(S): MARPAT 119:49694
 GI



AB Taxane derivs. I [R1, R3 = Ph, naphthyl, PhCH2CH2, 4-QC6H4 (Q = Me, Me3C, MeO, Cl, Br, F, O2N), 1,3-benzodioxolan-5-yl, 3,4-(MeO)2C6H3; Z = OT1 (T1 = H, hydroxyl protecting group, COT2, where T2 = H, Cl-6 alkyl, Cl-6 alkenyl, Cl-6 alkynyl or monocyclic aryl); E1, E2 = H or certain functional groups which increase the water solubility of the taxane derivative), were prepared. Thus, treatment of 7-triethylsilyl baccatin III in THF with BuLi at -45° followed by cis-1-benzoyl-1-triethylsilyloxy-4-(1-naphthyl)azetidin-2-one and subsequent desilylation (pyridine/aqueous HF in MeCN) gave 3'-desphenyl-3'-(1-naphthyl)taxol in 64% yield. Tubulin binding assays of the compds. were performed. The antitumor activity of compds. I were evaluated and claimed.
 IT 148548-73-6 148549-01-3 148549-09-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with lithiated (triethylsilyl)baccatin III, in preparation of neoplasm inhibitor)
 RN 148548-73-6 HCAPLUS
 CN 2-Azetidinone, 1-(4-methoxybenzoyl)-4-phenyl-3-[(triethylsilyl)oxy]-, (3R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

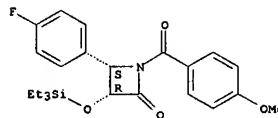


RN 148549-01-3 HCAPLUS

02/03/2006

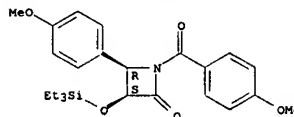
L4 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 2-Azetidinone, 1-(4-methoxybenzoyl)-4-(4-methoxyphenyl)-3-[(triethylsilyl)oxy]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

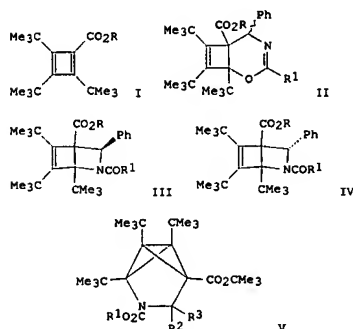


RN 148549-09-1 HCAPLUS
 CN 2-Azetidinone, 1-(4-methoxybenzoyl)-4-(4-methoxyphenyl)-3-[(triethylsilyl)oxy]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

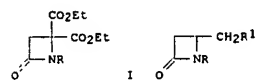


L4 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1989:7966 HCAPLUS
 DOCUMENT NUMBER: 110:7966
 TITLE: Antiaromatic compounds. 23. Cycloadditions of N-acylimines to cyclobutadienes
 AUTHOR(S): Michels, Gisbert; Regitz, Manfred; Hermesdorf, Michael; Schneider, Juergen
 CORPORATE SOURCE: Fachber. Chem., Univ. Kaiserslautern, Kaiserslautern, D-6750, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1988), 121(10), 1775-83
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 110:7966
 GI



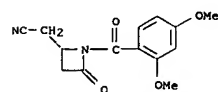
AB The cyclobutadienes I (R = Me3C, Me) add the benzaldehyde imines PhCH:NCOR1 (R1 = Me, Me3CCH2, Ph) to yield the hexaazabicyclo[4.2.0]octadienes II. Under thermal conditions (150-170 °C) III isomerize in each case to 2-azabicyclo[2.2.0]hexenes III and/or IV, which differ only in the configuration at C(3).
 Acid-catalyzed isomerization reactions of II (chloroform/trifluoroacetic acid) finally end up also in the formation of IV. The reaction of the N-acylimines of hexafluoroacetone with I (R = Me3C) leads also to the formation of hexaazabicyclo[4.2.0]octadienes. The reaction of I, (R = Me3C) with the N-alkoxycarbonyl-substituted imines produces an unusual result with the formation of the 3-azatricyclo[3.1.0.0.2,6]hexanes V (R1 = Me, R2 = Ph, R3 = H; R1 = Et, R2 = R3 = F3C) which can be transformed into bicyclic

L4 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1986:514779 HCAPLUS
 DOCUMENT NUMBER: 105:114779
 TITLE: Simple and condensed β-lactams. II. The synthesis of new diethyl 4-oxoazetidine-2,2-dicarboxylates and some manipulations of their functional groups and N-substituents
 AUTHOR(S): Simig, Gyula; Fetter, Jozsef; Hornyak, Gyula; Zauer, Karoly; Doleschall, Gabor; Lempert, Karoly; Nyitrai, Jozsef; Gombos, Zsuzsa; Gizur, Tibor; et al.
 CORPORATE SOURCE: Res. Group Alkaloid Chem., Hung. Acad. Sci., H-1521, Hung.
 SOURCE: Acta Chimica Hungarica (1985), 119(1), 17-32
 CODEN: ACHUDC; ISSN: 0231-3146
 DOCUMENT TYPE: Journal
 LANGUAGE: English
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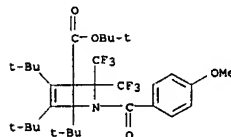


AB A series of new N-aryl- and N-aralkyl-4-oxoazetidine-2,2-dicarboxylates I [R = Ph, substituted Ph, (un)substituted CH2Ph] has been obtained by the Bose-Sheehan synthesis. Partial deethoxycarbonylation of I by Krapcho's method furnished the monocarboxylic esters. Reduction of the ester group of the latter gave the hydroxymethyl derivs., whose hydroxyl groups were derivatized and replaced to give II (R1 = ONO2, OAc, O2CNHPh, O3SMe, halogen, cyano, N3, NH2, pyridinium). The N-substituent of II [R = CH2C6H4(OMe)2-2,4, R1 = O3SMe, cyano] was removed by the peroxydisulfate oxidation method.

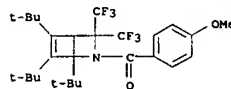
IT 103864-98-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 103864-98-8 HCAPLUS
 CN 2-Azetidineacetonitrile, 1-(2,4-dimethoxybenzoyl)-4-oxo- (9CI) (CA INDEX NAME)



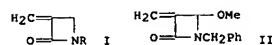
L4 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 isomers.
 IT 114692-73-8P 114692-75-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 114692-73-8 HCAPLUS
 CN 2-Azabicyclo[2.2.0]hex-5-ene-4-carboxylic acid, 1,5,6-tris(1,1-dimethylethyl)-2-(4-methoxybenzoyl)-3,3-bis(trifluoromethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 114692-75-0 HCAPLUS
 CN 2-Azabicyclo[2.2.0]hex-5-ene, 1,5,6-tris(1,1-dimethylethyl)-2-(4-methoxybenzoyl)-3,3-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)

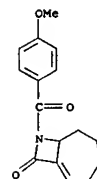


L4 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1985:422390 HCAPLUS
 DOCUMENT NUMBER: 103:22390
 TITLE: Debenzylation of N-benzyl-β-lactams by use of anodic oxidation
 AUTHOR(S): Mori, Miwa; Ban, Yoshio
 CORPORATE SOURCE: Fac. Pharm. Sci., Hokkaido Univ., Sapporo, 060, Japan
 SOURCE: Heterocycles (1985), 23(2), 317-23
 CODEN: HETCYM; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 103:22390
 GI

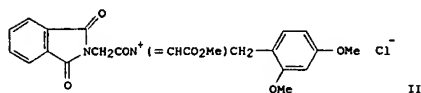


AB Anodic oxidation of the methylene-β-lactam I (R = CH2Ph) in MeOH gave I (R = CHPhOMe) and II. Similar results were obtained with I (R = CH2C6H4CO2Me-4). Oxidation of I (R = CH2C6H4Me-4) gave I (R = CH(OMe)C6H4Me-4, CH2C6H4CH2OH-4, CH(OMe)C6H4CH2OH-4) and I (R = CH2C6H4OMe-4) gave I (R = CH(OMe)C6H4OMe-4, C(OMe)2C6H4OMe-4). Acid hydrolysis of I (R = CH(OMe)C6H4R1; R1 = H, CO2Me, Me, OMe) gave I (R = H).

IT 96850-66-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 96850-66-7 HCAPLUS
 CN 8-Azabicyclo[5.2.0]non-1-en-9-one, 8-(4-methoxybenzoyl)- (9CI) (CA INDEX NAME)



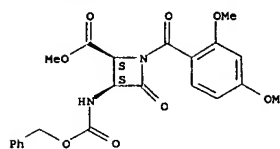
L4 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1984:610814 HCAPLUS
 DOCUMENT NUMBER: 101:210814
 TITLE: Chemical modification of sulfazecin. Synthesis of 4-methoxycarbonyl-2-azetidinone-1-sulfonic acid derivatives
 AUTHOR(S): Kishimoto, Shoji; Sendai, Michiyuki; Tomimoto, Mitsumi; Hashiguchi, Shohei; Matsuo, Taisuke; Ochiai, Michihiko
 CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, 532, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1984), 32(7), 2646-59
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB In the course of the chemical modification of sulfazecin, 3-[2-(2-aminothiazol-4-yl)-(Zn)-2-(substituted oxyimino)acetamido]-4-methoxycarbonyl-2-azetidinone-1-sulfonic acids were synthesized from cis-1-(2,4-dimethoxybenzyl)-4-methoxycarbonyl-3-phthalimido-2-azetidinone (I). These new 4-substituted derivs. showed more potent antimicrobial activities against gram-neg. bacteria than did the corresponding 4-unsubstituted compounds, and the derivs. having 3,4-cis stereochem. were more active than the trans isomers, especially against *P. aeruginosa* and some β -lactamase-producing bacteria. The reported procedure for the cycloaddn. reaction used to prepare I was investigated in detail; by the use of 20% excess NET_3 , I was easily obtained in 72% yield as colorless crystals. A possible intermediate in this cycloaddn. reaction, acyliminium salt (II), was isolated as crystals and converted into β -lactams by treatment with 1,8-diazabicyclo[5.4.0]-7-undecene.
 IT 92973-54-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 92973-54-1 HCAPLUS
 CN 2-Azetidinecarboxylic acid, 1-(2,4-dimethoxybenzoyl)-4-oxo-3-[[[phenylmethoxy]carbonyl]amino]-, methyl ester, cis- (9CI) (CA INDEX NAME)

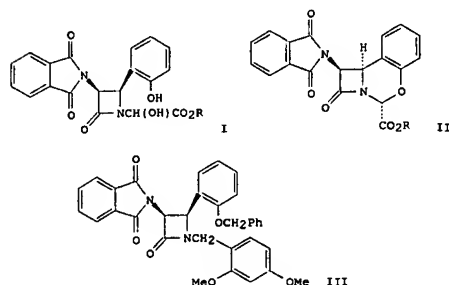
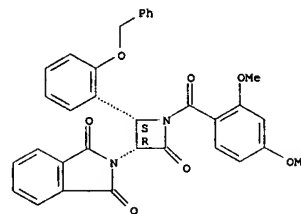
Relative stereochemistry.

L4 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



L4 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1980:425983 HCAPLUS
 DOCUMENT NUMBER: 93:25983
 TITLE: Studies on the synthesis of chemotherapeutics. VIII. Stereoselective synthesis of 1,9b-dihydro-2H,4H-2-oxo-azeto[1,2-c][1,3]benzoxazine-4-carboxylic acid derivatives. (Studies on the syntheses of heterocyclic compounds. DCCXIII)
 AUTHOR(S): Kametani, Tetsuji; Kigasawa, Kazuo; Hiragi, Mineharu
 CORPORATE SOURCE: Wakisaka, Kikuo; Sugi, Hideo; Tanigawa, Keizo Pharm. Inst., Tohoku Univ., Sendai, Japan
 SOURCE: Yakugaku Zasshi (1979), 99(11), 1132-40
 CODEN: YKKZAJ; ISSN: 0031-6903
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 OTHER SOURCE(S): CASREACT 93:25983
 GI

L4 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 Relative stereochemistry.



AB Cyclization of the phthalimidoazetidinylacetates I ($R = \text{CH}_2\text{CCl}_3$, $\text{CH}_2\text{C}_6\text{H}_4\text{NO}_2$ -p) gave stereoselectively the corresponding 1,2-benzo-3-oxacephama II together with a stereoisomer. The I were prepared via the cycloaddn. reaction of N-(2-benzyloxybenzylidene)-2,4-dimethoxybenzylamine with phthaloylglycyl chloride, followed by oxidative cleavage of 2,4-dimethoxybenzyl group of the adduct III. Deprotection of the N-phthaloyl and ester groups of II was also investigated.
 IT 73902-73-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 73902-73-5 HCAPLUS
 CN 2-Azetidinone, 3-[[1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl]-1-(2,4-dimethoxybenzoyl)-4-[2-(phenylmethoxy)phenyl]-, cis- (9CI) (CA INDEX NAME)

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FULL ESTIMATED COST	109.79	276.94

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DICTIONARY FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4

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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
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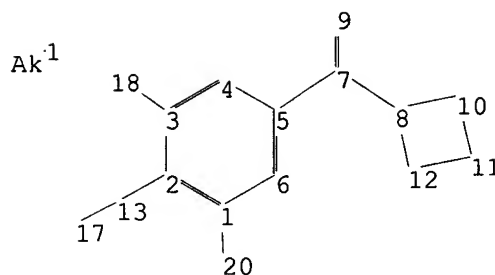
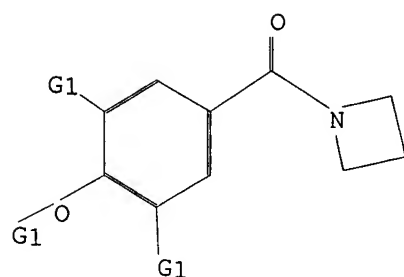
Structure search iteration limits have been increased. See HELP SLIMITS
for details.

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predicted properties as well as tags indicating availability of
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<http://www.cas.org/ONLINE/UG/regprops.html>

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Uploading C:\Program Files\Stnexp\Queries\10804505\e2.str



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 7 9 13 15 17 18 20
 ring nodes :
 1 2 3 4 5 6 8 10 11 12
 chain bonds :
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 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 8-10 8-12 10-11 11-12
 exact/norm bonds :
 1-20 2-13 3-18 7-8 7-9 8-10 8-12 10-11 11-12 13-17
 exact bonds :
 5-7
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 8 :

G1:H, [*1]

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:Atom
 11:Atom 12:Atom 13:CLASS 15:CLASS 17:CLASS 18:CLASS 20:CLASS
 Generic attributes :
 15:
 Number of Carbon Atoms : less than 7

L5 STRUCTURE UPLOADED

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COST IN U.S. DOLLARS

SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST

0.44 277.38

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4
DICTIONARY FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
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Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s 15

SAMPLE SEARCH INITIATED 14:21:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 19769 TO ITERATE

10.1% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 386964 TO 403796
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 14:21:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 393651 TO ITERATE

Andrew Freistein 10/804,505

100.0% PROCESSED 393651 ITERATIONS
SEARCH TIME: 00.00.08

33 ANSWERS

L7 33 SEA SSS FUL L5

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

166.94

444.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-15.00

FILE 'HCAPLUS' ENTERED AT 14:21:57 ON 03 FEB 2006

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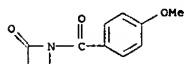
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L8

17 L7

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L8 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2005:1231819 HCAPLUS
 DOCUMENT NUMBER: 144:102803
 TITLE: Different Transition-State Structures for the Reactions of β -Lactams and Analogous β -Sultams with Serine β -Lactamases
 AUTHOR(S): Tsang, Wing Y.; Ahmed, Naveed; Hinchliffe, Paul S.; Wood, J. Matthew; Harding, Lindsay P.; Laws, Andrew P.; Page, Michael I.
 CORPORATE SOURCE: Department of Chemical and Biological Sciences, University of Huddersfield, Queensgate /Huddersfield, HD1 3DH, USA
 SOURCE: Journal of the American Chemical Society (2005), 127(49), 17556-17564
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 873073-29-1P
 RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (different transition-state structures for reactions of β -lactams and analogous β -sultams with serine β -lactamases)
 RN 873073-29-1 HCAPLUS
 CN INDEX NAME NOT YET ASSIGNED



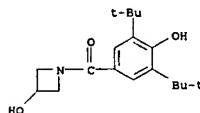
REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2005:823313 HCAPLUS
 DOCUMENT NUMBER: 143:229708
 TITLE: A preparation of azetidine derivatives, useful as COX-1/COX-2 inhibitors
 INVENTOR(S): Altisen, Rosa Cuberes; Constans, Jordi Frigola; Alvarez, Mathieu Ines
 PATENT ASSIGNEE(S): Spain
 SOURCE: U.S. Pat. Appl. Publ., 21 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

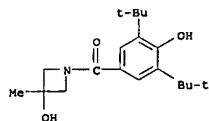
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005182041	A1	20050818	US 2004-804505	20040319
ES 2244313	A1	20051201	ES 2004-363	20040216
WO 2005077896	A1	20050825	WO 2005-EP1657	20050216

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, CH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 PRIORITY APPLN. INFO.: ES 2004-363 A 20040216
 US 2004-804505 A 20040319

OTHER SOURCE(S): MARPAT 143:229708
 IT 862780-46-9P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of azetidine derivs. useful as COX-1/COX-2 inhibitors)
 RN 862780-46-9 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]- (9CI) (CA INDEX NAME)

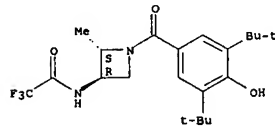


L8 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 IT 862780-47-0P 862780-52-7P 862780-55-0P 862780-56-1P 862780-57-2P 862780-58-3P 862780-60-7P 862780-61-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of azetidine derivs. useful as COX-1/COX-2 inhibitors)
 RN 862780-47-0 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-3-methyl- (9CI) (CA INDEX NAME)

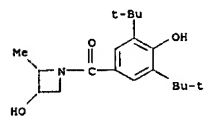


RN 862780-52-7 HCAPLUS
 CN Acetamide, N-[(2S,3R)-1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-2-methyl-3-azetidinyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

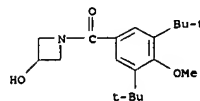
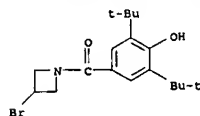


RN 862780-55-0 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-2-methyl- (9CI) (CA INDEX NAME)

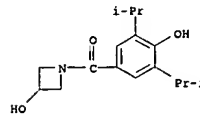


RN 862780-56-1 HCAPLUS
 CN Azetidine, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-3-bromo- (9CI) (CA INDEX NAME)

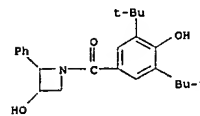
L8 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 RN 862780-57-2 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-methoxybenzoyl]- (9CI) (CA INDEX NAME)



RN 862780-58-3 HCAPLUS
 CN 3-Azetidinol, 1-[4-hydroxy-3,5-bis(1-methylethyl)benzoyl]- (9CI) (CA INDEX NAME)

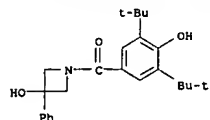


RN 862780-60-7 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-2-phenyl- (9CI) (CA INDEX NAME)



RN 862780-61-8 HCAPLUS
 CN 3-Azetidinol, 1-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]-3-phenyl- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:310829 HCAPLUS
 DOCUMENT NUMBER: 140:303552
 TITLE: Preparation of β -amino acid derivatives as inhibitors of matrix metalloproteases and TNF- α
 INVENTOR(S): Duan, Jingwu; King, Bryan W.; Decicco, Carl; Maduskuie, Thomas P.; Voss, Mathew E.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 150 pp.
 CODEM: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004072802	A1	20040415	US 2002-267207	20021009
PRIORITY APPLN. INFO.:			US 2002-267207	20021009

OTHER SOURCE(S): MARPAT 140:303552

IT 362697-32-3P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

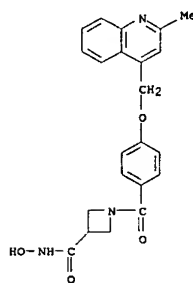
THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of β -amino acid derivs. as inhibitors of matrix metalloproteases and TNF- α)

RN 362697-32-3 HCAPLUS

CN 3-Azetidinecarboxamide, N-hydroxy-1-[4-[(2-methyl-4-quinolinyl)methoxy]benzoyl]- (9CI) (CA INDEX NAME)



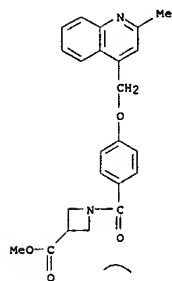
IT 362703-18-2P

L8 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of β -amino acid derivs. as inhibitors of matrix metalloproteases and TNF- α)

RN 362703-18-2 HCAPLUS

CN 3-Azetidinecarboxylic acid,
 1-[4-[(2-methyl-4-quinolinyl)methoxy]benzoyl]-
 , methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:60463 HCAPLUS

DOCUMENT NUMBER: 140:111265

TITLE: Preparation of azetidinecarboxylic acid and pyrrolidinecarboxylic acid N-hydroxyamide derivatives as antibacterial agents
 INVENTOR(S): Raju, Bore G.; Odowd, Hardwin; Gao, Hongwu; Patel, Dinesh V.; Trias, Joaquim

PATENT ASSIGNEE(S): Vicuron Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 172 pp.

CODEM: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004007444	A2	20040122	WO 2003-US21838	20030711
WO 2004007444	A3	20040910		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2492035 A2 20040115 CA 2003-2492035 20030711
 EP 1539744 A2 20050615 EP 2003-748939 20030711

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2005536510 T2 20051202 JP 2004-521744 20030711
 PRIORITY APPLN. INFO.: US 2002-394862P P 20020711

WO 2003-US21838 W 20030711

OTHER SOURCE(S): MARPAT 140:111265

IT 647856-14-2P, (R)-1-(3,5-Diallyl-4-methoxybenzoyl)azetidine-2-carboxylic acid hydroxyamide 647856-15-3P, (R)-1-(4-Methoxy-3,5-dipropylbenzoyl)azetidine-2-carboxylic acid hydroxyamide 647856-18-6P, (R)-1-(4-Methoxy-3-propylbenzoyl)azetidine-2-carboxylic acid hydroxyamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

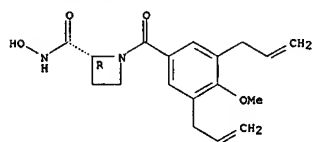
(antibacterial agent; preparation of azetidinecarboxylic acid and pyrrolidinecarboxylic acid N-hydroxyamide derivs. as antibacterial agents)

RN 647856-14-2 HCAPLUS

CN 2-Azetidinecarboxamide,
 N-hydroxy-1-(4-methoxy-3,5-di-2-propenylbenzoyl)-,
 (2R)- (9CI) (CA INDEX NAME)

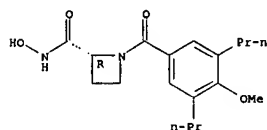
Absolute stereochemistry.

L8 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



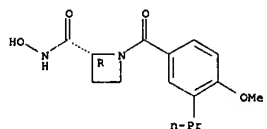
RN 647856-15-3 HCAPLUS
 CN 2-Azetidinecarboxamide, N-hydroxy-1-(4-methoxy-3,5-dipropylbenzoyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 647856-18-6 HCAPLUS
 CN 2-Azetidinecarboxamide, N-hydroxy-1-(4-methoxy-3-propylbenzoyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 647856-16-4, (R)-1-(3,5-Diallyl-4-methoxybenzoyl)azetidine-2-carboxylic acid methyl ester
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of azetidinecarboxylic acid and pyrrolidinecarboxylic acid
 N-hydroxyamide derivs. as antibacterial agents)

RN 647856-16-4 HCAPLUS
 CN 2-Azetidinecarboxylic acid, 1-(4-methoxy-3,5-di-2-propenylbenzoyl)-,

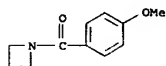
L8 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:887103 HCAPLUS
 DOCUMENT NUMBER: 140:93653

TITLE: An Evaluation of Amide Group Planarity in 7-Azabicyclo[2.2.1]heptane Amides. Low Amide Bond Rotation Barrier in Solution
 AUTHOR(S): Otsu, Yuko; Nagae, Osamu; Naruse, Yuji; Inagaki, Satoshi; Ohno, Masashi; Yamaguchi, Kentaro; Yamamoto, Gaku; Uchiyama, Masanobu; Ohwada, Tomohiko
 CORPORATE SOURCE: Graduate School of Pharmaceutical Sciences, The University of Tokyo, Bunkyo, Tokyo, 113-0033, Japan
 SOURCE: Journal of the American Chemical Society (2003), 125(49), 15191-15199
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:93653
 IT 643026-89-5P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
 (evaluation of amide group planarity in azabicycloheptane amides)

RN 643026-89-5 HCAPLUS
 CN Azetidine, 1-(4-methoxybenzoyl)- (9CI) (CA INDEX NAME)



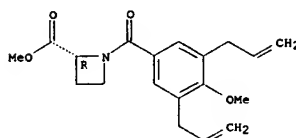
REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L8 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

methyl ester, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:713343 HCAPLUS
 DOCUMENT NUMBER: 135:272894

TITLE: Preparation of β -amino acid derivatives as inhibitors of matrix metalloproteases and TNF- α
 INVENTOR(S): Duan, Jingwu; King, Bryan W.; Decicco, Carl; Maduskuie, Thomas P., Jr.; Voss, Matthew E.
 PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA
 SOURCE: PCT Int. Appl., 483 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070734	A2	20010927	WO 2001-US8336	20010315
WO 2001070734	A3	20020314		
W: AT, AU, BR, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, HU, IL, IN, JP, KR, LT, LU, LV, NZ, PL, PT, RO, SE, SG, SI, SK, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2400168	AA	20010927	CA 2001-2400168	20010315
AU 2001050850	A5	20011003	AU 2001-50850	20010315
EP 1263756	A2	20021211	EP 2001-924171	20010315
EP 1263756	B1	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR				
BR 200109469	A	20030429	BR 2001-9469	20010315
JP 2003528097	T2	20030924	JP 2001-568935	20010315
AT 260272	E	20040315	AT 2001-924171	20010315
NZ 521245	A	20040430	NZ 2001-521245	20010315
ES 2215893	T3	20041016	ES 2001-1924171	20010315
US 2002013341	A1	20020131	US 2001-811116	20010316
US 6495565	B2	20021217		
HK 1049334	A1	20040716	HK 2003-101437	20030226
PRIORITY APPLN. INFO.:			US 2000-190183P	P 20000317
			US 2000-235467P	P 20000926
			US 2000-252062P	P 20001120
			WO 2001-US8336	W 20010315

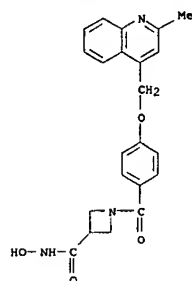
OTHER SOURCE(S): MARPAT 135:272894

IT 362697-32-3P

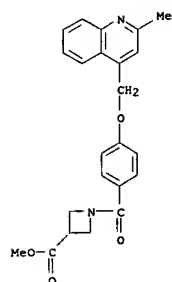
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of β -amino acid derivs. as inhibitors of matrix metalloproteases and TNF- α)

RN 362697-32-3 HCAPLUS
 CN 3-Azetidinecarboxamide, N-hydroxy-1-[(2-methyl-4-quinolinyl)methoxy]benzoyl)- (9CI) (CA INDEX NAME)

L8 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 362703-18-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of β -amino acid derivs. as inhibitors of matrix
 metalloproteases and TNF- α)
 RN 362703-18-2 HCAPLUS
 CN 3-Azetidinecarboxylic acid,
 1-[(4-[(2-methyl-4-quinolinyl)methoxy]benzoyl)-
 1-methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

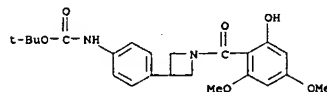
ACCESSION NUMBER: 2000:210150 HCAPLUS
 DOCUMENT NUMBER: 132:251067
 TITLE: Novel amidine derivatives, their preparation and
 application as inhibitors of NO synthase and lipid
 peroxidation, and pharmaceutical compositions
 containing them
 Auvin, Serge; Chabrier de Lassaulniere,
 Harnett, Jeremiah; Pons, Dominique; Ulibarri, Gerard
 Societe de Conseils de Recherches et d'Applications
 Scientifiques (S.C.R.A.S., Fr.
 PCT Int. Appl., 119 pp.
 CODEN: PIXXD2
 Patent
 French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000017190	A2	20000330	WO 1999-FR2250	19990922
WO 2000017190	A3	20001026		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RM:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2783519	A1	20000324	FR 1998-11868	19980923
FR 2783519	B1	20030124		
CA 2344224	AA	20000330	CA 1999-2344224	19990922
AU 9956314	A1	20000410	AU 1999-56314	19990922
AU 766373	B2	20031016		
BR 9913904	A	20010703	BR 1999-13904	19990922
EP 1115719	A2	20010718	EP 1999-943024	19990922
EP 1115719	B1	20030305		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002526493	T2	20020820	JP 2000-574099	19990922
AT 233750	E	20030315	AT 1999-943024	19990922
EP 1318149	A1	20030611	EP 2002-26170	19990922
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY			
PT 1115719	T	20030731	PT 1999-943024	19990922
NZ 511189	A	20030926	NZ 1999-511189	19990922
ES 2194501	T3	20031116	ES 1999-943024	19990922
RU 2238939	C2	20041027	RU 2001-111022	19990922
IL 141998	A1	20050925	IL 1999-141998	19990922
US 6653312	B1	20031125	US 2001-787467	20010316
NO 2001001479	A	20010518	NO 2001-1479	20010322
ZA 2001003204	A	20020919	ZA 2001-3204	20010419
HK 1042486	A1	20050225	HK 2002-103892	20020524
US 2005261269	A1	20051124	US 2003-662183	20030912
PRIORITY APPLN. INFO.:			FR 1998-11868	A 19980923
			EP 1999-943024	A3 19990922

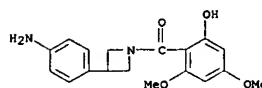
L8 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L8 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 WO 1999-FR2250 W 19990922
 US 2001-787467 A3 20010316

OTHER SOURCE(S): MARPAT 132:251067
 IT 262614-42-6P 262614-43-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (intermediate; preparation of amidine derivs. as inhibitors of NO
 synthase
 and/or lipid peroxidn.)
 RN 262614-42-6 HCAPLUS
 CN Carbamic acid,
 [4-[(2-hydroxy-4,6-dimethoxybenzoyl)-3-azetidinyl]phenyl]-
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



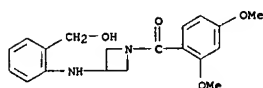
RN 262614-43-7 HCAPLUS
 CN Azetidine, 3-(4-aminophenyl)-1-(2-hydroxy-4,6-dimethoxybenzoyl)- (9CI)
 (CA INDEX NAME)



L8 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1997:613831 HCAPLUS
 DOCUMENT NUMBER: 127:278203
 TITLE: Benzoxazinone and benzopyrimidinone piperidinyl
 tocolytic oxytocin receptor antagonists
 INVENTOR(S): Bock, Mark G.; Evans, Ben E.; Williams, Peter D.;
 Freidinger, Roger M.; Pettibone, Douglas J.; Hobbs,
 Doug W.; Anderson, Paul S.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: U.S., 140 pp., Cont.-in-part of U.S. Ser. No. 92,840,
 abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

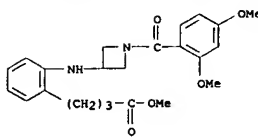
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5665719	A	19970909	US 1995-470693	19950606
PRIORITY APPLN. INFO.:			US 1993-92840	B2 19930716

OTHER SOURCE(S): MARPAT 127:278203
 IT 162045-63-8P 162045-66-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (intermediate; preparation of benzoxazinone and benzopyrimidinone
 derivs. as oxytocin and vasopressin receptor antagonists)
 RN 162045-63-8 HCAPLUS
 CN 3-Azetidinamine, 1-(2,4-dimethoxybenzoyl)-N-[2-(hydroxymethyl)phenyl]-
 (9CI) (CA INDEX NAME)

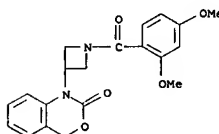


RN 162045-66-1 HCAPLUS
 CN Benzenebutanoic acid, 2-[[1-(2,4-dimethoxybenzoyl)-3-azetidinyl]amino]-,
 methyl ester (9CI) (CA INDEX NAME)

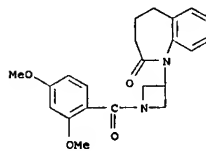
L8 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 162042-77-5P 162042-79-7P
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzoxazinone and benzopyrimidinone derivs. as
 oxytocin and vasopressin receptor antagonists)
 RN 162042-77-5 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2-oxo-2H-3,1-benzoxazin-1(4H)-yl)-
 (9CI) (CA INDEX NAME)



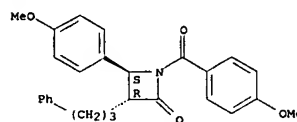
RN 162042-79-7 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2,3,4,5-tetrahydro-2-oxo-1H-1-
 benzazepin-1-yl)- (9CI) (CA INDEX NAME)



L8 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L8 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:513507 HCAPLUS
 DOCUMENT NUMBER: 125:131668
 TITLE: 2-Azetidinone Cholesterol Absorption Inhibitors:
 Structure-Activity Relationships on the Heterocyclic
 Nucleus
 AUTHOR(S): Clader, John W.; Burnett, Duane A.; Caplen, Mary Ann;
 Domalski, Martin S.; Dugar, Sundeep; Vaccaro, Wayne;
 Sher, Rosy; Browne, Margaret E.; Zhao, Hongrong; et
 al.
 CORPORATE SOURCE: Schering-Plough Research Institute, Kenilworth, NJ,
 07033-0539, USA
 SOURCE: Journal of Medicinal Chemistry (1996), 39(19),
 3684-3693
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 179763-35-0P
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (structure-activity relations of azetidinone cholesterol absorption
 inhibitors)
 RN 179763-35-0 HCAPLUS
 CN 2-Azetidinone,
 1-(4-methoxybenzoyl)-4-(4-methoxyphenyl)-3-(3-phenylpropyl)-
 , trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

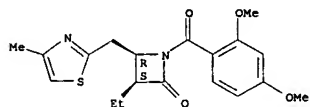


L8 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:954289 HCAPLUS
 DOCUMENT NUMBER: 124:116909
 TITLE: Simple and condensed β -lactams. Part 23.
 Synthesis of some compounds related to the
 monobactams, carrying non-acylamino substituents in
 position 3 and various heterocyclyl or
 heterocyclylmethyl substituents in position 4 of the
 β -lactam ring
 AUTHOR(S): Fetter, Jozsef; Bertha, Ferenc; Czuppon, Tibor;
 Kajtar-Peredy, Maria; Lempert, Karoly
 CORPORATE SOURCE: Dep. Org. Chem., Tech. Univ. Budapest, Budapest,
 H-1521, Hung.
 SOURCE: Journal of Chemical Research, Synopses (1995), (11),
 444-5
 CODEN: JRPSDC; ISSN: 0308-2342
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:116909
 IT 172698-00-9P

RL: BYP (Byproduct); PREP (Preparation)
 (synthesis of some compds. related to the monobactams and their
 antimicrobiol. activity)

RN 172698-00-9 HCAPLUS
 CN 2-Azetidinone, 1-(2,4-dimethoxybenzoyl)-3-ethyl-4-[(4-methyl-2-
 thiazolyl)methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

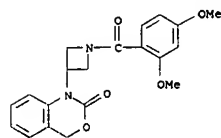


L8 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:470323 HCAPLUS
 DOCUMENT NUMBER: 123:276051
 TITLE: Benzoxazinone and benzopyrimidinone piperidinyl
 tocolytic oxytocin receptor antagonists
 Bock, Mark G.; Evans, Ben E.; Hobbs, Doug W.;
 Williams, Peter D.; Anderson, Paul S.; Freidinger,
 Roger M.; Pettibone, Douglas J.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 385 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

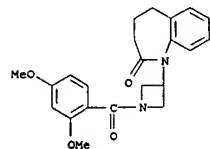
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9502405	A1	19950126	WO 1994-US7784	19940714
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LT, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2166975	AA	19950126	CA 1994-2166975	19940714
CA 2166975	C	20050405		
AU 9475132	A1	19950213	AU 1994-75132	19940714
AU 691829	B2	19980528		
EP 714299	A1	19960605	EP 1994-925092	19940714
EP 714299	B1	20020424		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09500134	T2	19970107	JP 1994-504656	19940714
AT 216580	E	20020515	AT 1994-925092	19940714
PRIORITY APPLN. INFO.:			US 1993-92840	A 19930716
			WO 1994-US7784	W 19940714

OTHER SOURCE(S): MARPAT 123:276051
 IT 162042-77-5P 162042-79-7P
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin
 receptor antagonists)
 RN 162042-77-5 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2-oxo-2H-3,1-benzoxazin-1(4H)-yl)-
 (9CI) (CA INDEX NAME)

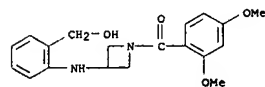
L8 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 162042-79-7 HCAPLUS
 CN Azetidine, 1-(2,4-dimethoxybenzoyl)-3-(2,3,4,5-tetrahydro-2-oxo-1H-1-
 benzazepin-1-yl)- (9CI) (CA INDEX NAME)

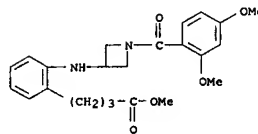


IT 162045-63-8P 162045-66-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin
 receptor antagonists)
 RN 162045-63-8 HCAPLUS
 CN 3-Azetidinamine, 1-(2,4-dimethoxybenzoyl)-N-[2-(hydroxymethyl)phenyl]-
 (9CI) (CA INDEX NAME)



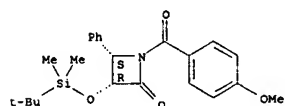
RN 162045-66-1 HCAPLUS
 CN Benzenebutanoic acid, 2-[(1-(2,4-dimethoxybenzoyl)-3-azetidiny]amino]-,
 methyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:44917 HCAPLUS
 DOCUMENT NUMBER: 122:56244
 TITLE: Topliss approach to the synthesis of biologically active substituted N-benzoyl taxol analogs
 AUTHOR(S): Georg, Gunda I.; Boge, Thomas C.; Cheruvallath, Zacharia S.; Harriman, Geraldine C. B.; Hepperle, Michael; Park, Haeil; Himes, Richard H.
 CORPORATE SOURCE: Dep. Med. Chem., Univ. Kansas, Lawrence, KS, 66045, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1994), 4(15), 1825-30
 CODEN: BMCLE8; ISSN: 0960-894X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 160058-87-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 of (preparation and reaction with triethylsilylbaccatin III in synthesis of taxol analogs)
 RN 160058-87-7 HCAPLUS
 CN 2-Azetidinone, 3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-(4-methoxybenzoyl)-4-phenyl-, (3R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:539574 HCAPLUS
 DOCUMENT NUMBER: 119:139574
 TITLE: Preparation of substituted isoserine esters using metal alkoxides and (beta)-lactams
 INVENTOR(S): Holton, Robert A.
 PATENT ASSIGNEE(S): Florida State University, USA
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 28
 PATENT INFORMATION:

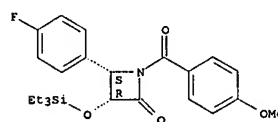
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9306079	A1	19930401	WO 1992-US7990	19920922
W: AU, CA, CS, FI, HU, JP, KP, KR, NO, PL, RU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
CA 2221190	C	20020212	CA 1992-2221190	19920902
ZA 9206827	A	19930315	ZA 1992-6827	19920908
ZA 9206828	A	19930315	ZA 1992-6828	19920908
ZA 9206829	A	19930315	ZA 1992-6829	19920908
ZA 9207038	A	19930514	ZA 1992-7038	19920915
ZA 9207039	A	19931220	ZA 1992-7039	19920915
CA 2098478	AA	19930324	CA 1992-2098478	19920922
CA 2098478	C	19930514		
AU 9226890	A1	19930427	AU 1992-26890	19920922
AU 647971	B2	19940331		
EP 605637	A1	19940713	EP 1992-921316	19920922
EP 605637	B1	19990324		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
JP 07502983	T2	19950330	JP 1993-506299	19920922
JP 3469237	B2	20031125		
HU 71795	A2	19960228	HU 1994-830	19920922
EP 884314	A2	19981216	EP 1998-114788	19920922
EP 884314	A3	20020502		
EP 884314	B1	20040121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, IE				
RU 2128654	C1	19990410	RU 1994-44324	19920922
AT 179060	E	19990415	AT 1992-921316	19920922
ES 2132129	T3	19990816	ES 1992-921316	19920922
CZ 287417	B6	20001115	CZ 1994-660	19920922
CZ 287609	B6	20010117	CZ 1994-661	19920922
EP 1193252	A2	20020403	EP 2002-688	19920922
EP 1193252	A3	20031105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, IE				
CA 2254273	C	20030325	CA 1992-2254273	19920922
AT 258171	E	20040215	AT 1998-114788	19920922
ES 2214665	T3	20040916	ES 1998-114788	19920922
AU 9339838	A1	19930819	AU 1993-39838	19930527
AU 642392	B3	19931014		
FI 9401325	A	19940504	FI 1994-1325	19940322
FI 113046	B1	20040227		
NO 9401022	A	19940520	NO 1994-1022	19940322
NO 306209	B1	19991004		

L8 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 TW 396159 B 20000701 TW 1994-83103422 19940418
 US 5539103 A 19960723 US 1994-351532 19941207
 US 5723634 A 19980303 US 1995-483309 19950607
 US 6066747 A 20000523 US 1995-522307 19951030
 US 6069260 A 20000530 US 1997-941640 19970930
 US 6479678 B1 20021112 US 2000-517791 20000302
 US 2001014746 A1 20010816 US 2001-804821 20010313
 US 6562962 B2 20030513
 US 2003027855 A1 20030206 US 2002-208418 20020730
 US 6710191 B2 20040323
 US 2003120096 A1 20030626 US 2002-289103 20021106
 US 6683196 B2 20040127
 JP 2004043439 A2 20040212 JP 2003-128200 20030506
 US 2004073048 A1 20040415 US 1991-763805 A 19910923
 PRIORITY APPLN. INFO.: US 1992-862955 A 19920403
 US 1992-863840 A 19920406
 US 1992-863451 A 19920403
 US 1992-863849 A 19920406
 US 1992-900408 A 19920618
 CA 1992-2077394 A3 19920902
 CA 1992-2098478 A3 19920922
 CS 1994-660 A 19920922
 CS 1994-661 A 19920922
 EP 1992-921316 A3 19920922
 EP 1998-114788 A3 19920922
 JP 1993-506299 A3 19920922
 US 1992-949107 B3 19920922
 WO 1992-US7990 A 19920922
 US 1992-967998 B1 19921026
 WO 1994-US2382 W 19940304
 US 1994-263270 B1 19940621
 US 1994-314532 A1 19940928
 US 1994-351532 A3 19941207
 US 1995-483309 A3 19950607
 US 1996-607108 A1 19960226
 US 1997-941640 A1 19970930

L8 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 2000-517791 A1 20000302
 US 2000-566970 A1 20000509
 US 2002-194343 A1 20020712
 US 2002-289103 A1 20021106

OTHER SOURCE(S): MARPAT 119:139574
 IT 149197-26-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (sequential lithiation and esterification by azetidinone derivative of baccatin III derivative in preparation of taxol-related compound)
 RN 149197-26-2 HCAPLUS
 CN 2-Azetidinone, 4-[(4-fluorophenyl)-1-(4-methoxybenzoyl)-3-[(triethylsilyl)oxy]-, (3R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



Andrew Freistein 10/804,505

L8 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:449694 HCAPLUS
 DOCUMENT NUMBER: 119:49694
 TITLE: Preparation of substituted taxanes as antitumor agents
 INVENTOR(S): Holton, Robert A.; Nadizadeh, Hossain; Beidiger, Ronald J.; Kim, Seokchan
 PATENT ASSIGNEE(S): Florida State University, USA
 SOURCE: Eur. Pat. Appl., 43 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 28
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 534709	A1	19930331	EP 1992-308609	19920922
EP 534709	B1	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5250683	A	19931005	US 1992-863451	19920403
CA 2077394	AA	19930324	CA 1992-2077394	19920902
CA 2077394	C	19990406		
CA 2221190	C	20020212	CA 1992-2221190	19920902
AU 9222124	A1	19930325	AU 1992-22124	19920904
AU 655493	B2	19941222		
ZA 9206827	A	19930315	ZA 1992-6827	19920908
ZA 9206828	A	19930315	ZA 1992-6828	19920908
ZA 9206829	A	19930315	ZA 1992-6829	19920908
ZA 9207038	A	19930514	ZA 1992-7038	19920915
ZA 9207039	A	19931220	ZA 1992-7039	19920915
FI 113173	B1	20040315	FI 1992-4228	19920921
NO 9203679	A	19930324	NO 1992-3679	19920922
NO 305205	B1	19990419		
HU 63155	A2	19930728	HU 1992-3024	19920922
HU 215110	B	19981228		
JP 06199824	A2	19940719	JP 1992-276765	19920922
JP 3182231	B2	20010703		
EP 884314	A2	19981216	EP 1998-114788	19920922
EP 884314	A3	20020502		
EP 884314	B1	20040121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
CZ 287417	B6	20001115	CZ 1994-660	19920922
CZ 287609	B6	20010117	CZ 1994-661	19920922
EP 1193252	A2	20020403	EP 2002-688	19920922
EP 1193252	A3	20031105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
AT 231139	E	20030215	AT 1992-308609	19920922
CA 2254273	C	20030325	CA 1992-2254273	19920922
ES 2191005	T3	20030901	ES 1992-308609	19920922
TW 396159	B	20000701	TW 1994-83103422	19940418
US 5539103	A	19960723	US 1994-351532	19941207
US 5723634	A	19980303	US 1995-483309	19950607
US 6066747	A	20000523	US 1995-522307	19951030
US 6069260	A	20000530	US 1997-941640	19970930

L8 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 6479678 B1 20021112 US 2000-517791 20000302
 US 2001014746 A1 20010816 US 2001-804821 20010313
 US 6562962 B2 20030513
 US 2003027855 A1 20030206 US 2002-208418 20020730
 US 6710191 B2 20040323
 US 2003120096 A1 20030626 US 2002-289103 20021106
 US 6683196 B2 20040127
 JP 2004043439 A2 20040212 JP 2003-128200 20030506
 US 2004073048 A1 20040415 US 2003-673897 20030929
 US 1991-763805 A 19910923

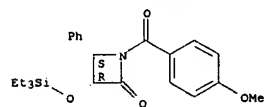
PRIORITY APPLN. INFO.:				
			US 1992-863451	A 19920403
			US 1992-862955	A 19920403
			US 1992-863840	A 19920406
			US 1992-863849	A 19920406
			US 1992-900408	A 19920618
			CA 1992-2077394	A3 19920902
			CA 1992-2098478	A3 19920922
			CS 1994-660	A 19920922
			CS 1994-661	A 19920922
			EP 1992-921316	A3 19920922
			EP 1998-114788	A3 19920922
			JP 1993-506299	A3 19920922
			US 1992-949107	B3 19920922
			US 1992-967998	B1 19921026
			WO 1994-US2382	W 19940304
			US 1994-263270	B1 19940621
			US 1994-314532	A1 19940928
			US 1994-351532	A3 19941207
			US 1995-483309	A3 19950607
			US 1996-607108	A1 19960226
			US 1997-941640	A1 19970930
			US 2000-517791	A1 20000302

L8 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 2000-566970 A1 20000509
 US 2002-194343 A1 20020712
 US 2002-289103 A1 20021106

OTHER SOURCE(S): MARPAT 119:49694
 IT 148548-73-6 148549-01-3 148549-09-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with lithiated (triethylsilyl)baccatin III, in preparation of neoplasm inhibitor)

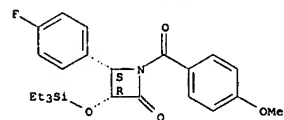
RN 148548-73-6 HCAPLUS
 CN 2-Azetidinone, 1-(4-methoxybenzoyl)-4-phenyl-3-[(triethylsilyl)oxy]-, (3R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



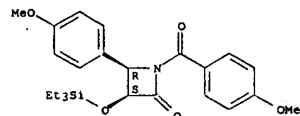
RN 148549-01-3 HCAPLUS
 CN 2-Azetidinone, 4-(4-fluorophenyl)-1-(4-methoxybenzoyl)-3-[(triethylsilyl)oxy]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

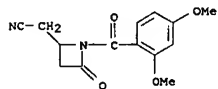


RN 148549-09-1 HCAPLUS
 CN 2-Azetidinone, 1-(4-methoxybenzoyl)-4-(4-methoxyphenyl)-3-[(triethylsilyl)oxy]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

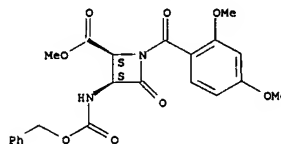


L8 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:514779 HCAPLUS
 DOCUMENT NUMBER: 105:114779
 TITLE: Simple and condensed β -lactams. II. The synthesis of new diethyl 4-oxoazetidine-2,2-dicarboxylates and some manipulations of their functional groups and N-substituents
 AUTHOR(S): Simig, Gyula; Fetter, Jozsef; Hornyak, Gyula; Zauer, Karoly; Doleschall, Gabor; Lempert, Karoly; Nyitrai, Jozsef; Gombos, Zsuzsa; Gizur, Tibor; et al.
 CORPORATE SOURCE: Res. Group Alkaloid Chem., Hung. Acad. Sci., Budapest,
 SOURCE: H-1521, Hung. Acta Chimica Hungarica (1985), 119(1), 17-32
 CODEN: ACHUDC; ISSN: 0231-3146
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 103864-98-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 103864-98-8 HCAPLUS
 CN 2-Azetidineacetonitrile, 1-(2,4-dimethoxybenzoyl)-4-oxo- (9CI) (CA INDEX NAME)



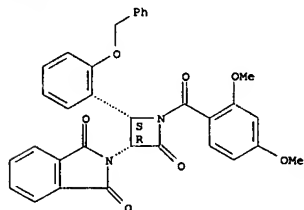
L8 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1984:610814 HCAPLUS
 DOCUMENT NUMBER: 101:210814
 TITLE: Chemical modification of sulfazecin. Synthesis of 4-methoxycarbonyl-2-azetidinone-1-sulfonic acid derivatives
 AUTHOR(S): Kishimoto, Shoji; Sendai, Michiyuki; Tomimoto, Mitsumi; Hashiguchi, Shohei; Matsuo, Taisuke; Ochiai, Michihiko
 CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, 532, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1984), 32(7), 2646-59
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 92973-54-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 92973-54-1 HCAPLUS
 CN 2-Azetidinecarboxylic acid, 1-(2,4-dimethoxybenzoyl)-4-oxo-3-[[[phenylmethoxy]carbonyl]amino]-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L8 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:425983 HCAPLUS
 DOCUMENT NUMBER: 93:25983
 TITLE: Studies on the synthesis of chemotherapeutics. VIII. Stereoselective synthesis of
 1,9b-dihydro-2H,4H-2-oxo-azeto[1,2-c][1,3]benzoxazine-4-carboxylic acid derivatives. (Studies on the syntheses of heterocyclic compounds. DCCCXIII)
 AUTHOR(S): Kametani, Tetsuji; Kigasawa, Kazuo; Hiiragi, Wakisaka, Kikuo; Sugi, Hideo; Tanigawa, Keizo
 CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, Japan
 SOURCE: Yakugaku Zasshi (1979), 99(11), 1132-40
 CODEN: YKKZAJ; ISSN: 0031-6903
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 OTHER SOURCE(S): CASREACT 93:25983
 IT 73902-73-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 73902-73-5 HCAPLUS
 CN 2-Azetidinone, 3-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-(2,4-dimethoxybenzoyl)-4-[2-(phenylmethoxy)phenyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



Andrew Freistein 10/804,505

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	67.26	511.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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